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October 2, 1990

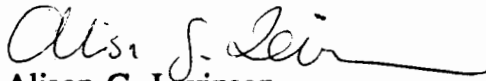
Mr. Barry York
General Electric Company
Building 6, Room 233
One River Road
Schenectady, New York 12345

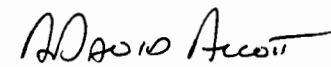
Dear Mr. York:

Law Environmental is pleased to provide the attached October, 1990 - Quarterly Quality Assurance Report for the RCRA Facility Investigation of the General Electric Apparatus Service Shop located in Albuquerque, New Mexico. This report is submitted as a requirement under General Electric's Consent Decree #87-1073-jb.

Sincerely,

LAW ENVIRONMENTAL, INC.


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Project Manager


A. David Alcott, P.E.
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cc: Section Chief, Technical Section (6H-CX)
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RCRA FACILITY INVESTIGATION

FOR

GENERAL ELECTRIC COMPANY
APPARATUS SERVICE SHOP
ALBUQUERQUE, NEW MEXICO

QUARTERLY QUALITY ASSURANCE REPORT
MAY SAMPLING EPISODE

Prepared For:

Mr. Barry York
General Electric Company
Building 6, Room 233
One River Road
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Prepared by:

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OCTOBER, 1990

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SAMPLE ANALYSIS DATA REPORTS

- Appendix A - Dry Well #1
- Appendix B - Dry Well #2
- Appendix C - Former PCB Drum Rack Borings
- Appendix D - Shallow Hand Auger Borings
- Appendix E - Monitoring Wells
- Appendix F - Equipment/Trip Blanks

APPENDIX G

- Appendix G-1 Volatile Organics Data
- Appendix G-2 Semi-Volatile Organics Data
- Appendix G-3 Pesticide/PCB Data
- Appendix G-4 Metals Data
- Appendix G-5 Other Appendix IX Data

~~APPENDIX H~~

Chain of Custody Logs

1.0 PROJECT DESCRIPTION

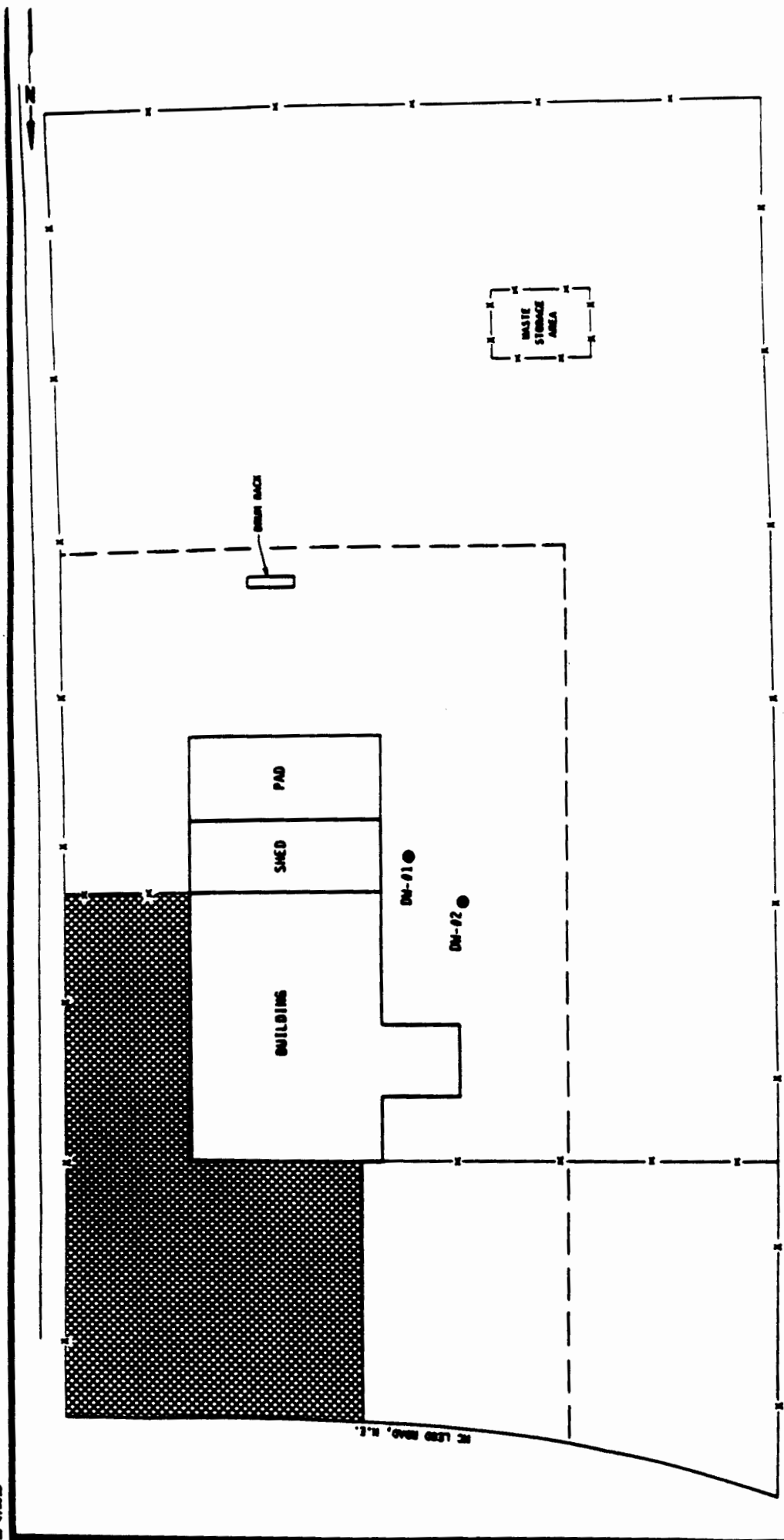
1.1 REPORT ORGANIZATION

This Quarterly Quality Assurance Report (QQAR) presents the results of the evaluation of the site investigation. The chemical data for the field samples must be evaluated in conjunction with the associated QC data so that proper use of the field sample data can be made. Both laboratory and field activities are discussed. The QC practices and results from the laboratory and field investigations are summarized in Section 2.0 and 3.0, respectively. Section 4.0 summarizes the data acquired during the site investigations and provides a detailed evaluation of the overall quality of all data points. The effect of any problems discussed in Sections 2.0 and/or 3.0 on individual data points is reserved for Section 4.0.

1.2 SITE DESCRIPTION

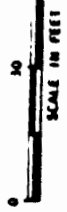
General Electric's Apparatus Service Shop is located approximately 4 miles northeast of downtown Albuquerque, New Mexico and approximately 4.5 miles east of the Rio Grande River. The facility is located on a 2-acre site in a light industrial park area. The Apparatus Shop cleans and repairs industrial equipment, primarily electrical equipment containing PCB's in oil. This waste oil was emptied from the equipment and stored in 55 gallon drums until removal to a hazardous waste storage facility. The equipment was steam cleaned and cleaned with various solvents such as xylene, kerosene, 1,1,1-trichloroethane, methylene chloride, methyl ethyl ketone, and toluene. These solvents and steam cleaning effluents were disposed of in a dry well. This dry well was approximately 12 feet deep and located 6 feet west of the building (Figure 1-1) and will be referred to as Dry Well #1. The use of this dry well stopped in November of 1983.

AP 47343B



LEGEND

- - - - FENCE
- - - - PREVIOUS PROPERTY BOUNDARY
- [Stippled Box] PAVEMENT



GENERAL ELECTRIC
SERVICE SHOP
ALBUQUERQUE, NEW MEXICO



LAW ENVIRONMENTAL
INC.

SITE PLAN

10/8 MO 11 11 11 11 11

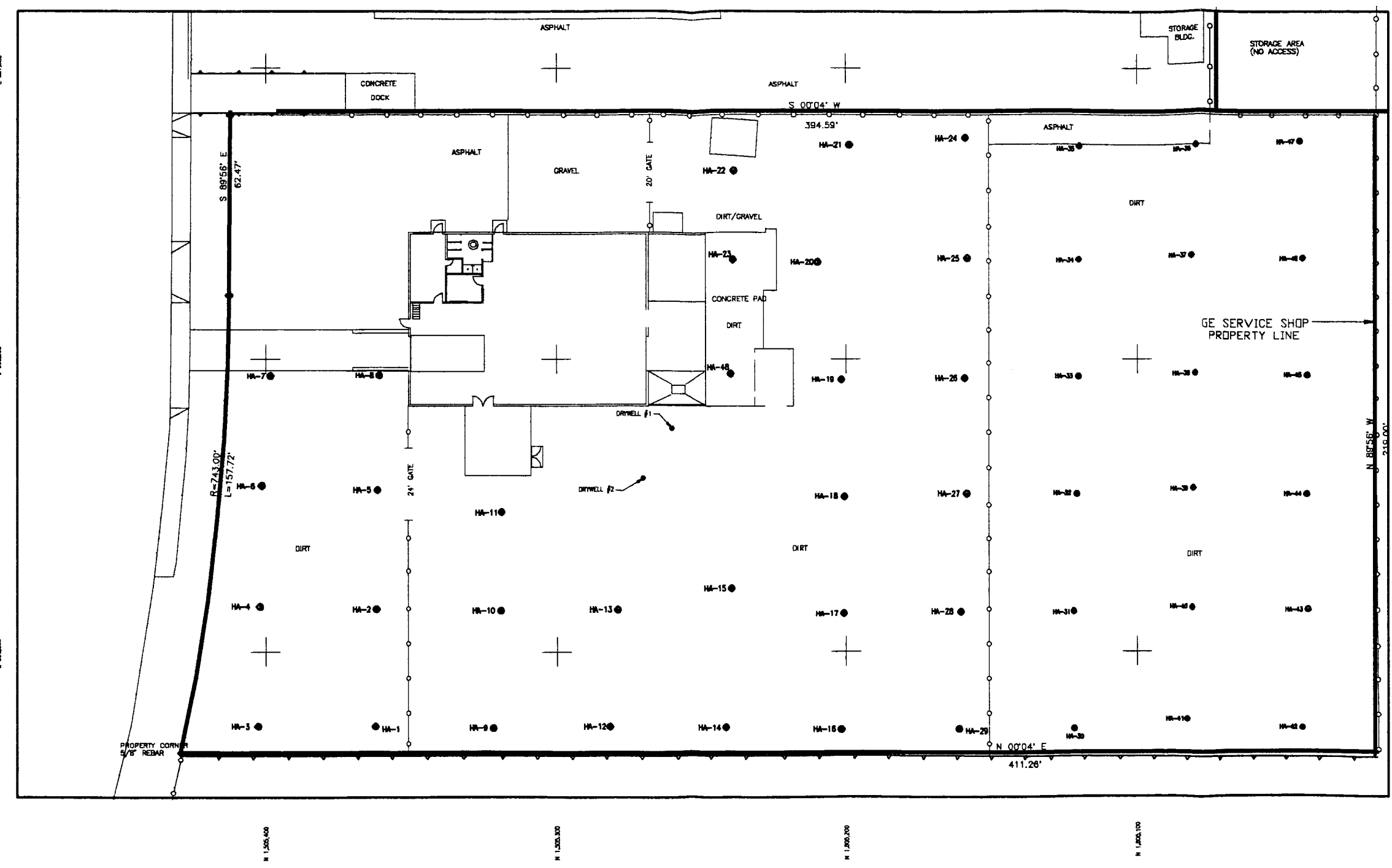
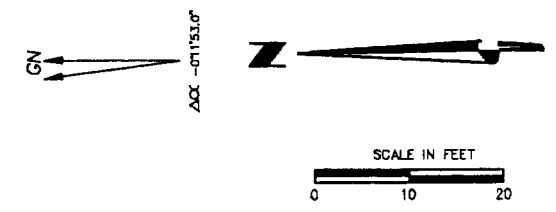
Prior to the use of this dry well, another dry well had been used since the construction of the Apparatus Shop in 1969. This older dry well is approximately 12 to 15 feet deep and it is uncertain as to how long it was in use. It is located 23 feet to the north west of the building (Figure 1-1). The cleaning practices have not changed significantly since the shops construction, thus, the same constituents of contamination are suspected in this older dry well. This older dry well will be referred to as Dry Well #2.

Previous testing of the soil around the PCB drum rack and Dry Well #1 indicate PCB's were present in ppm (mg/kg) levels and high ppb (ug/kg) levels (> 100 ppb) of methylene chloride was also detected. A boring (B-1) was installed, during a previous phase of study, directly into Dry Well #1 which indicated volatile contaminants of ethylbenzene, tetrachloroethylene, 1,1,1-trichloroethane, methylene chloride, and benzene above 24 feet. Only methylene chloride was found below 24 feet and was thought to be lab contamination.

In May 1990 a grid system was used to sample the entire site for shallow soil PCB and volatile organic contamination (Figure 1-2). These shallow hand auger borings were collected at depths of 1 and 2 feet and were analyzed for PCBs and specific volatile organics. These data will be discussed in more detail in Section 4.0.

Borings were also installed around the previous PCB Drum Rack in May, 1990. These four borings were advanced to 20 feet and sampled at 5 foot increments (Figure 1-3). These soil samples were analyzed for PCBs and specific volatile organics compounds. This will be discussed in more detail in Section 4.0.

In February, 1990, another boring (B-1A) was advanced approximately 5 feet west of Dry Well #1 to a depth of 50 feet. The soil boring samples were tested for volatile and semi-volatile organics, pesticides, PCBs, herbicides, sulfide, cyanide, and dioxin. The Quarterly Quality Assurance Report (QQAR) of June, 1990 discussed



REV	DATE	APP	DESCRIPTION	DATE	APP	DESCRIPTION

DESIGNED	
DRAWN	
CHECKED	
IN CHARGE	
DATE	



GENERAL ELECTRIC SERVICE SHOP
ALBUQUERQUE, NEW MEXICO

SHALLOW HAND AUGER BORING LOCATIONS

SCALE 1" = 10'

DRAWING NUMBER

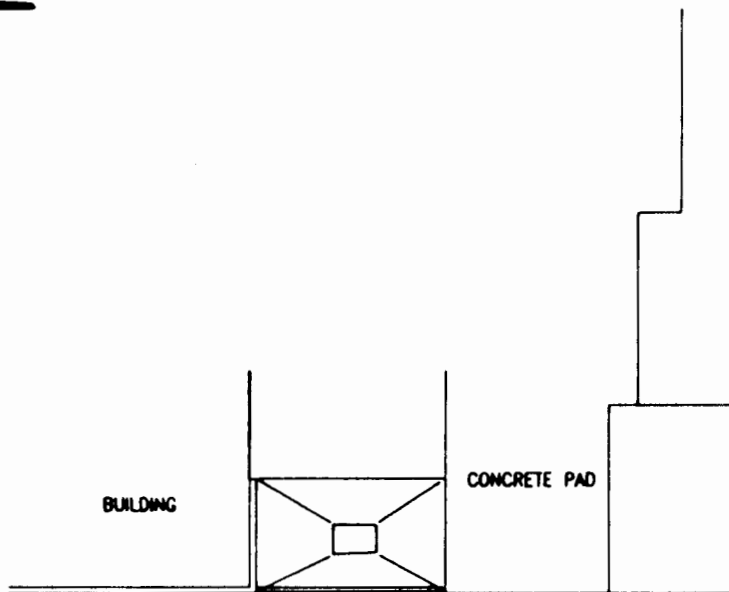
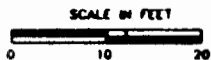
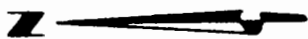
SHEET 1-2

REV

FIGURE

JOB NO. 55-4342

P. 3. 17.4V



B-9 ⊙
B-10 ⊙
B-11 ⊙

B-8 ⊙

LEGEND

B-8 ⊙ BORING

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ALBUQUERQUE, NEW MEXICO



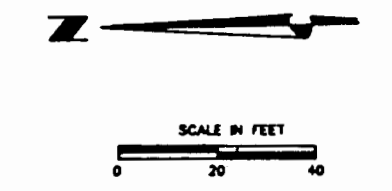
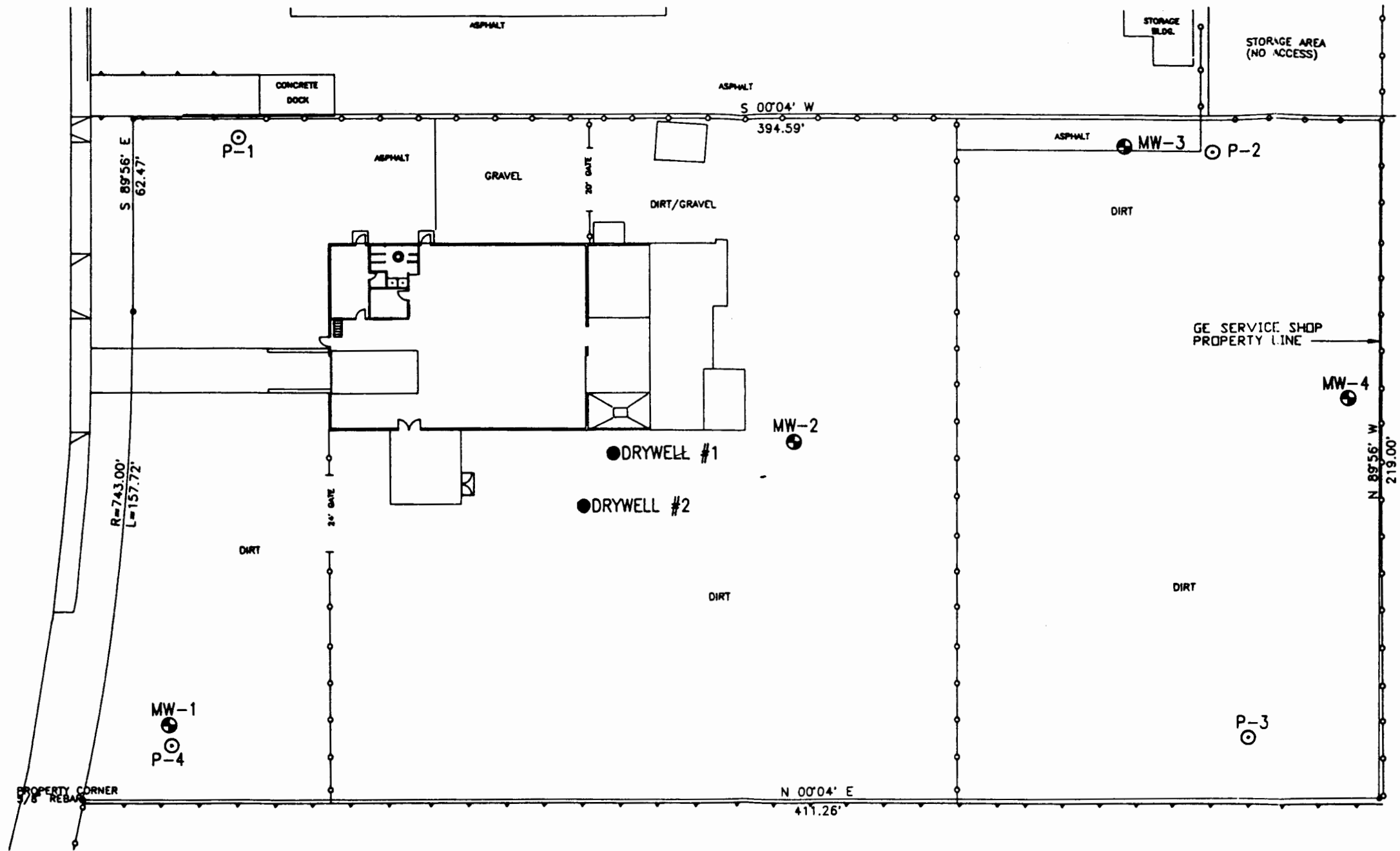
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FORMER PCB DRUM RACK
BORING LOCATION MAP

the results of Boring B-1A in detail. Other borings were installed in the dry well area, in May, 1990, (Figure 1-5) and this data will be discussed in this QQAR.

All soil samples collected from boring B-1A and those samples collected in May were screened by a field gas chromatograph for specific volatile organics to explore the vertical extent of contamination. These results were discussed in detail in the June QQAR.

The ground water at the Albuquerque Apparatus Service Shop flows in a southerly direction and is located 270 and 280 feet below the ground surface. Four monitoring wells were installed at various locations on the site (Figure 1-4). The ground-water samples were analyzed for Appendix IX constituents. These data will be discussed in Section 4.0.



LEGEND
 MW-1 ● MONITORING WELL LOCATION
 P-1 ○ PIEZOMETER LOCATION

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 ALBUQUERQUE, NEW MEXICO



**LAW ENVIRONMENTAL,
 INC.**

**PIEZOMETER AND
 MONITORING WELL
 LOCATION MAP**

JOB NO. 55-4342

FIGURE 1-4