

2201

**REMOVAL SITE EVALUATION SOUTHWEST
OFFICE TRAILERS AND EPA/PARSONS OFFICE
TRAILERS SEPTEMBER 1991 REVISION #1**

09-01-1991

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RSE

2201

REMOVAL SITE EVALUATION
SOUTHWEST OFFICE TRAILERS
AND
EPA/PARSONS OFFICE TRAILERS
Fernald Site Office
U. S. Department of Energy

September 1991
Rev. #1

INTRODUCTION

These projects were developed in response to the need to relocate Laboratory personnel due to the Analytical Facility Upgrade (PA# 00-87502) project expansion and to provide office space for representatives of the EPA, OEPA, and Ralph M. Parsons Company.

The Southwest Office Trailers project will install two (2) ten-plex office trailers with water, sewage, electrical power, and telecommunications. The EPA/Parsons Office Trailers project will install two (2) duplex office trailers that will tie into the same utilities.

The ten-plexes and duplexes will be located south of the Laboratory Building as indicated on sketch #1. Areas affected by this project are indicated by the attached sketch #1.

In order to accomplish this project, soil must be excavated for most utilities. The soil will be handled according to Site Policy and Procedure FMPC-720.

This Removal Site Evaluation (RSE) has been completed by the DOE under authorities delegated by Executive Order 12580 under Section 104 of CERCLA and is consistent with Section 300.410 of the National Oil and Hazardous Substance Pollution Contingency Plan (NCP). This RSE has been completed to support the decision as to whether the Southwest Office Trailers and EPA/Parsons Office Trailers projects' conditions warrant a removal action.

SOURCE TERM

Site characterization and historical records reviews were performed relative to the project work areas and the soil.

As part of the site characterization activities, surface and subsurface soil sampling was performed along the proposed excavation areas. The location, depth, and analytical results of these samples are provided on sampling data chart Tables #1 and #2.

As indicated by these analytical results, some samples contain above background levels of total uranium. The attached sketches and the tables included within the next section identify the location at which the samples were taken, the depths of the samples, and their respective analytical results. The aforementioned procedure will adequately address the handling and disposal of these materials. Soil sampling for this project was also performed to determine the chemical composition of the soil at selected points of the work areas. The results of the chemical composition samples (TCLP) are pending and will be submitted as an addendum to this RSE when results are in.

EVALUATION OF THE MAGNITUDE OF THE POTENTIAL THREAT

The Southwest Office Trailers and the EPA/Parsons Office Trailers projects involve excavation of elevated concentrations of hazardous substances. Table #1 shows only one sample point, point #10, sketch #1, meeting category II criteria. Surface sample points 2,3,4,5, & 6, (table 2, sketch 2) exceed Category II (100 pci/gm) contamination limits. Precautions, such as periodic monitoring of soils, will be deployed as much as practical to ensure that this action will not result in the release or a substantial threat of release of hazardous substances into the environment.

Category 2 soil will be dispositioned in the controlled area stockpile. Characterization sampling and analysis will be conducted during pre-construction, construction, and post construction build over activities.

Tables #1 and #2 show sample results taken from twenty-two (22) points within the proposed construction area. Sketches are also attached for reference. Table #1 corresponds to sketch #1, and Table #2 corresponds to sketch #2. Herbicide and pesticide results for points labeled with the asterisk (*) are pending. These results will be provided as an addendum to this RSE as soon as they are available.

TABLE 1

Reference sketch #1

Southwest Office Trailers and EPA/Parsons Trailers Projects Sampling Data									
Sample Point	Depth		Total Th pci/gm	C A T	Ttl. U pci/gm	H E R	P E S	C A T	COMMENT:
	S	ft.							
4	X		<2.4	1	<12			1	
5	X		4.3	1	<6.9			1	
6	X		1.8	1	<7.2			1	
7	X	1	6.0	1	15	*	*	1	sampled for Herb. & Pest.
8	X	1	5.2	1	34	*	*	1	" " " "
9	X	1	4.7	1	19	*	*	1	" " " "
10	X	1	6.1	1	35	*	*	2	" " " "
11	X	1	4.6	1	22	*	*	1	" " " "
12	X	1	4.6	1	20	*	*	1	" " " "
13	X	1	4.9	1	26	*	*	1	" " " "

* - TCLP herbicide/pesticide- results pending
S - Surface Sample

HER - Herbicides

PES - Pesticides

TABLE 2

Reference Sketch #2

Southwest Office Trailers and EPA/Parsons Trailers Projects Sampling Data									
Sample Point	Depth		Total Th pci/gm	C A T	Ttl. U pci/gm	H E R	P E S	C A T	COMMENT:
	S	ft.							
2		1	< 4	1	33	*	*	1	sampled for herb. & pest.
3		1	< 4	1	11	*	*	1	" " " "
4		1	< 4	1	8			1	
5		1	< 4	1	8			1	
6		1	< 4	1	18			1	
7		1	< 4	1	7	•	*	1	sampled for Herb. & Pest.
8		1	< 4	1	7	•	*	1	" " " "
9		1	< 4	1	18	*	*	1	" " " "
10		1	< 4	1	14	*	*	1	" " " "
11		1	< 4	1	15	•	*	1	" " " "
12		1	< 4	1	11	•	*	1	" " " "
13		1	< 4	1	20	*	*	1	" " " "

Surface Samples									
Sample Point	Depth		Total Th pci/gm	C A T	Ttl. U pci/gm	H E R	P E S	C A T	COMMENT:
	S	ft.							
2		0	8	1	300	•	•	E	sampled for herb. & pest.
3		0	39	1	220	*	*	E	" " " "
4		0	< 4	1	180			E	
5		0	< 4	1	190			E	
6		0	< 4	1	140			E	
7		0	< 4	1	92	•	•	2	sampled for Herb. & Pest.
8		0	< 4	1	23	•	*	1	" " " "
9		0	< 4	1	32	•	•	1	" " " "
10		0	< 4	1	20	*	•	1	" " " "
11		0	< 4	1	13	•	*	1	" " " "
12		0	< 4	1	42	•	•	2	" " " "
13		0	< 4	1	44	•	*	2	" " " "

* - TCLP herbicide/pesticide- results pending. E - Exceed CAT. 2

ASSESSMENT OF THE NEED FOR REMOVAL ACTION

Consistent with Section 40 CFR of the National Contingency Plan (NCP), the Department of Energy shall determine the appropriateness of a removal action. Eight factors to be considered in this determination are listed in the NCP, 40 CFR 300.415 (b) (2). The following apply specifically to the concentration of total uranium occurring in the soil to be excavated:

40 CFR 300.415 (b)(2)(iv)

High levels of hazardous substances or pollutants or contaminants in soils largely at or near the surface that may migrate.

Based on the sampling data presented herein, one of the eight factors listed in the NCP may be applicable to the Southwest Office Trailers and EPA/Parsons Office Trailers projects.

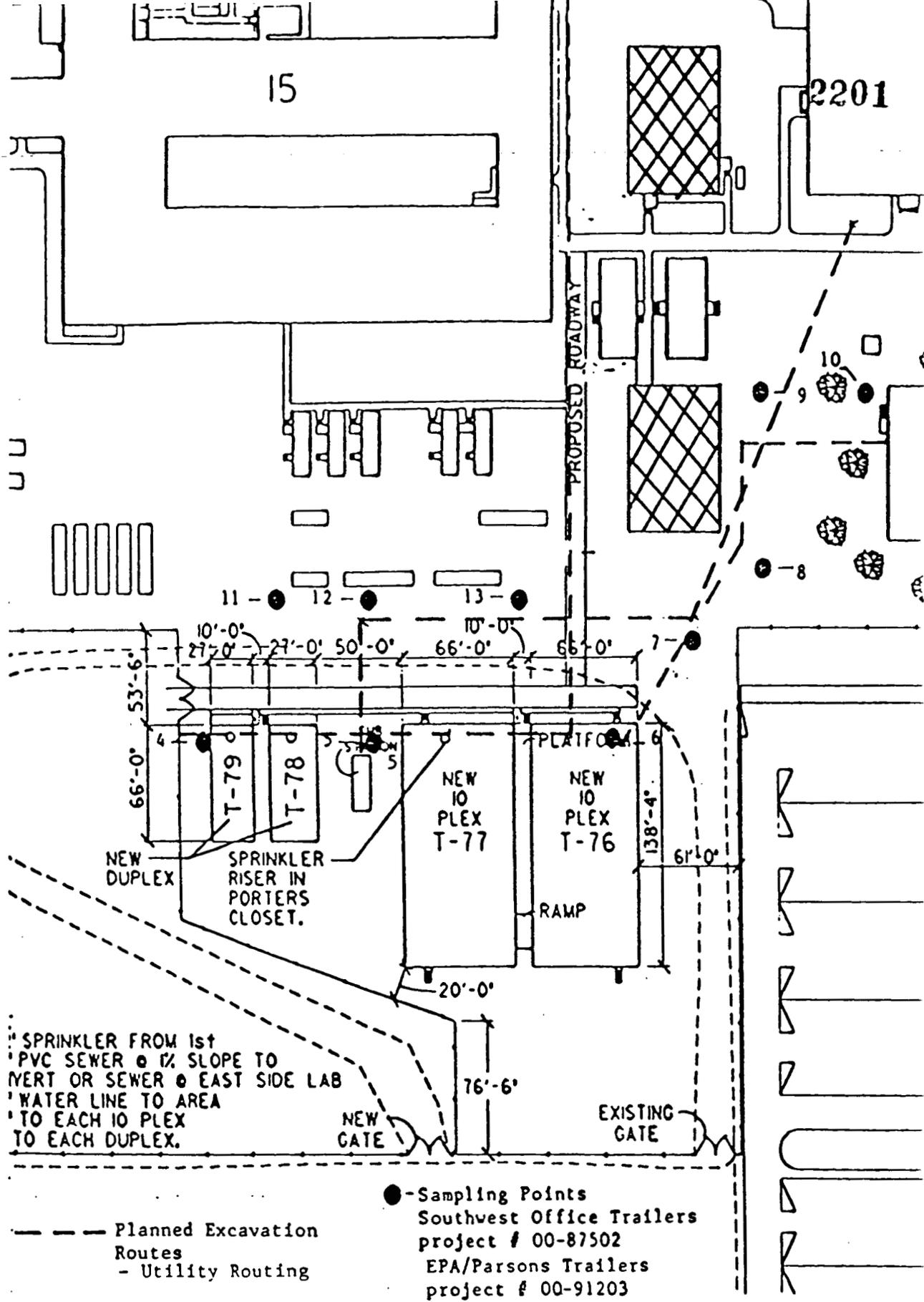
APPROPRIATENESS OF A RESPONSE

If it is determined that a response action is appropriate due to the levels of contamination found in the soil, a removal action may be required to address the existing situation.

If a planning period of less than six months exists prior to initiation of a response action, DOE will issue an Action Memorandum. The Action Memorandum will describe the selected response and provide supporting documentation for the decision.

If it is determined that there is a planning period greater than six months before a response is initiated, DOE will issue an Engineering Evaluation/Cost Analysis (EE/CA) Approval Memorandum. This memorandum is to be used to document the threat of public health and the environment and to evaluate viable alternative response actions. It will also serve as a decision document to be included in the Administrative Record.

Site characterization activities completed to support the Southwest Office Trailers project indicate that hazardous substances are present in the environment at the proposed project. Site Policy and Procedure FMPC-720 and IH&S-IH-03 adequately address concerns associated with potential releases. Therefore, there is no threat of contaminant release to the environment associated with this project and a Removal Action is not required.



SPRINKLER FROM 1st
 PVC SEWER @ 1% SLOPE TO
 VERT OR SEWER @ EAST SIDE LAB
 WATER LINE TO AREA
 TO EACH 10 PLEX
 TO EACH DUPLEX.

--- Planned Excavation
 Routes
 - Utility Routing

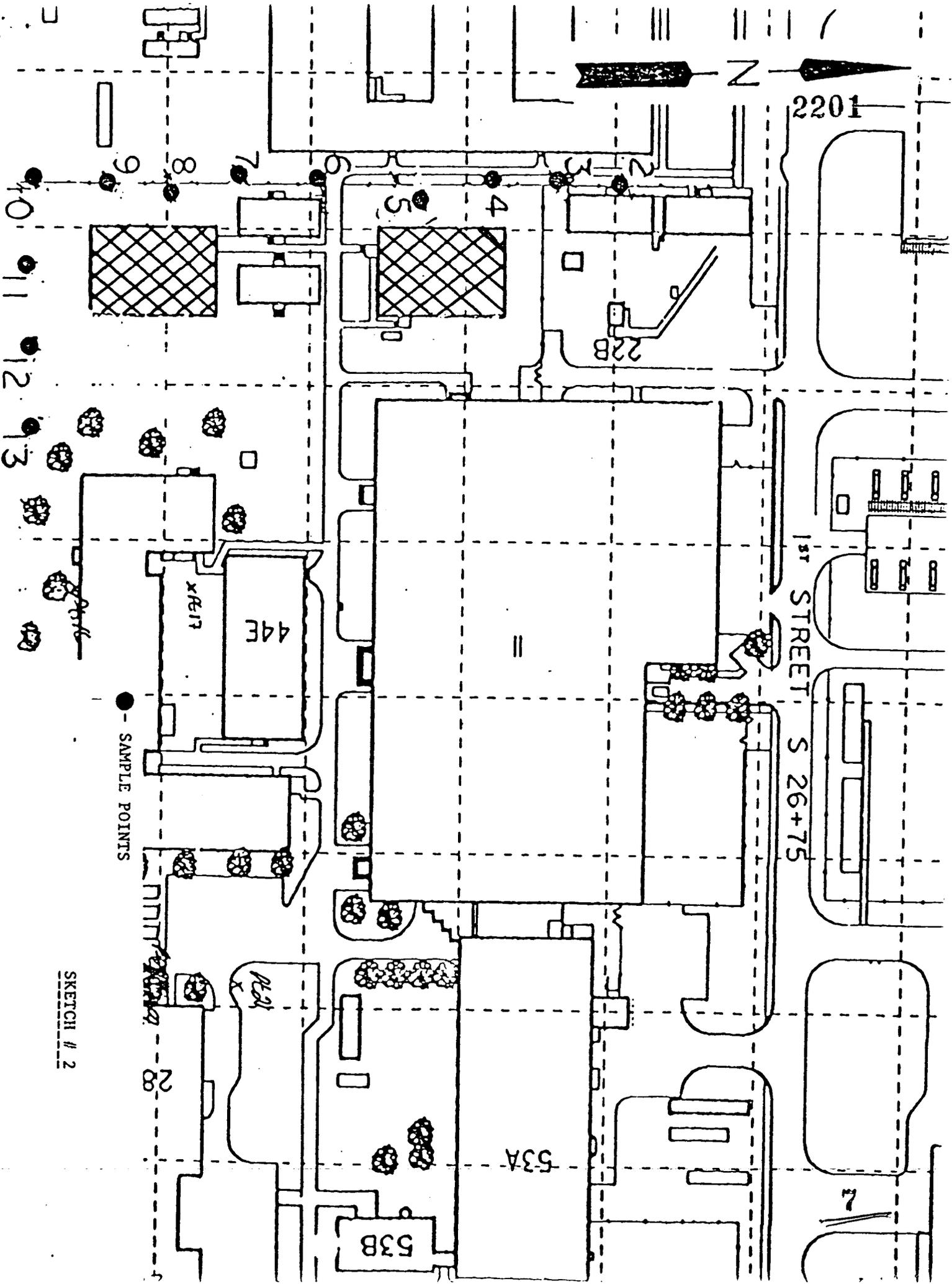
● - Sampling Points
 Southwest Office Trailers
 project # 00-87502
 EPA/Parsons Trailers
 project # 00-91203

SKETCH #1

2201



1st STREET S 26+75



● - SAMPLE POINTS

SKETCH # 2