FINAL

LATERAL CONTROL PIT (LCP) E-6
EXCAVATION WORK PLAN
FORMER GRIFFISS AIR FORCE BASE
ROME, NEW YORK

CONTRACT: F41624-01-D-8544
DELIVERY ORDER: 0002

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JANUARY 2003

PARSONS

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LIST OF ACRONYMS

AFCEE	Air Force Center for Environmental Excellence
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
FPM	FPM Group, Ltd.
LCP	Lateral Control Pit
NYSDEC	New York State Department of Environmental Conservation
PID	Photoionization Detector
PPB	Parts Per Billion
TAGM	Technical and Administrative Guidance Memorandum
USEPA	United States Environmental Protection Agency
WP	Work Plan

SECTION 1.0 INTRODUCTION

This Work Plan (WP) details the approach and tasks necessary to remove dichlorobenzene-contaminated soil in the vicinity of Lateral Control Pit (LCP) E-6 (Figure 1) adjacent to Apron 1 at the former Griffiss Air Force Base. Although petroleum-contamination exists in this area, the objective of this proposed action is to remove soil that contains concentrations of dichlorobenzene above New York State Soil Cleanup Objectives.

Parsons has been contracted by the Air Force Center for Environmental Excellence (AFCEE), under contract #F41624-01-D-8544, delivery order 0002, to perform this site remediation.

The detection of dichlorobenzene within the vicinity of Apron 1 has raised concerns with the United States Environmental Protection Agency (USEPA) and the New York State Department of Environmental Conservation (NYSDEC) as to whether the Apron 1 site is required to follow the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) process or the NYSDEC Petroleum Sites Program for cleanup. Because the dichlorobenzene-contaminated area is limited in size in comparison to the overall Apron 1 site, limited soil excavation will be completed to remove the dichlorobenzene-contaminated soil and the remainder of the Apron 1 site will remain in the NYSDEC Petroleum Sites Program.

SECTION 2.0 SUMMARY OF PREVIOUS INVESTIGATIONS

There were several previous investigations performed at the Apron 1 site since 1995 that identified petroleum-contaminated soil. A Chlorobenzenes Summary Report was prepared by the FPM Group, Ltd. (FPM) (FPM; Draft Report, September 2002). The purpose of the report was to summarize the previous investigations performed at Apron 1 that included sample collection and analysis for the dichlorobenzene isomers (1,2-, 1,3-, and 1,4-), and its related compound (chlorobenzene). A total of 228 soil samples and 225 groundwater samples were analyzed for chlorobenzene and/or the dichlorobenzene isomers.

The Chlorobenzene Summary Report (FPM; Draft Report, September 2002) concluded that:

- Exceedances of the soil guidance values (NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046) is limited to only the soil samples collected at LCP E-6, near vent well LF6VMW1 (also identified as LE6VM1 in some previous reports) and monitoring point MP-A.
- The proposed remedy will address the limited soil contamination from the chlorinated aromatic organic compounds (dichlorobenzenes).

SECTION 3.0 DESCRIPTION OF PROPOSED EXCAVATION

To remove dichlorobenzene-contaminated soils, a limited excavation (25' x 25') will be conducted in the area of LCP E-6 as shown on Figure 2.

3.1 Excavate and Stockpile Contaminated Soil

A portion of the existing bioventing pipeline for Apron 1 will be removed. The existing 4-inch PVC piping runs above the proposed excavation area. The bioventing blower system will be shut down, the pipeline will be cut, removed and the ends will be capped prior to starting the excavation.

An excavator will be used to excavate and stockpile the contaminated soil. The excavation, approximately 25 feet by 25 feet (Figure 2), will begin at the south end near LF6VMW1 and proceed in the vertical direction, 12 to 14 feet below ground surface or until groundwater is encountered. Excavated soil will be stockpiled on poly adjacent to the excavation. The soil will be field screened with a photoionization detector (PID). PID readings from within the excavation will be recorded. The excavation will be secured by placing orange construction fence around the area. The stockpiled soil will be covered with poly to avoid rainfall runoff.

3.2 Confirmation Sampling

Four (4) grab samples will be collected from the excavation sidewalls. Each sidewall sample will be collected at the center of the sidewall two thirds of the distance to the bottom of the excavation. In addition, one (1) grab sample, from the bottom of the excavation, will be collected. If the concentrations of dichlorobenzene are below cleanup criteria (Regulatory Guidance Values), the excavation will be backfilled. If a sidewall composite concentration exceeds the cleanup criteria, the excavation will be continued another three (3) feet horizontally (full depth). Following the re-excavation, the sidewall will be re-sampled. This procedure shall be followed until the sidewall confirmation samples are below the regulatory guidance values. If the bottom sample exceeds the cleanup criteria, options for paths forward will be reviewed and evaluated with regulators. The excavation will not extend below the groundwater elevation at this time.

Compound	Regulatory Guidance Value (TAGM 4046)
1,2-Dichlorobenzene	7,900 ppb
1,3-Dichlorobenzene	1,600 ppb
1,4-Dichlorobenzene	8,500 ppb

It is expected that petroleum contamination will remain following this limited excavation. Dichlorobenzene removal is the objective of this work and the petroleum contamination will be addressed as part of the long-term petroleum cleanup program.

3.3 Waste Disposal Characterization

One (1) composite sample will be collected from the stockpiled soil and fully analyzed/characterized with respect to all disposal parameters. The selected landfill will determine the analytical parameters. Normal disposal characteristic analytical parameters include; TCLP volatiles, TCLP semi-volatiles, TCLP pesticides/herbicides, TCLP metals, reactive cyanide, reactive sulfide, ignitability and pH. It is expected that the soil will be non-hazardous based on generator knowledge and known dichlorobenzene concentrations. A waste profile will be generated and the analytical data will be used to support the waste approval process.

The dichlorobenzene guidance value for hazardous waste due to toxicity is:

Compound	Regulatory Guidance Value	Waste Code
1,4-Dichlorobenzene	7.5 mg/L (TCLP)	D027

3.4 Transportation and Disposal

Following waste characterization and landfill approval, the stockpiled soil will be loaded into dump trailers for transport to an approved off-site disposal facility such as Seneca Meadows Landfill, Ontario County Landfill or High Acres Landfill.

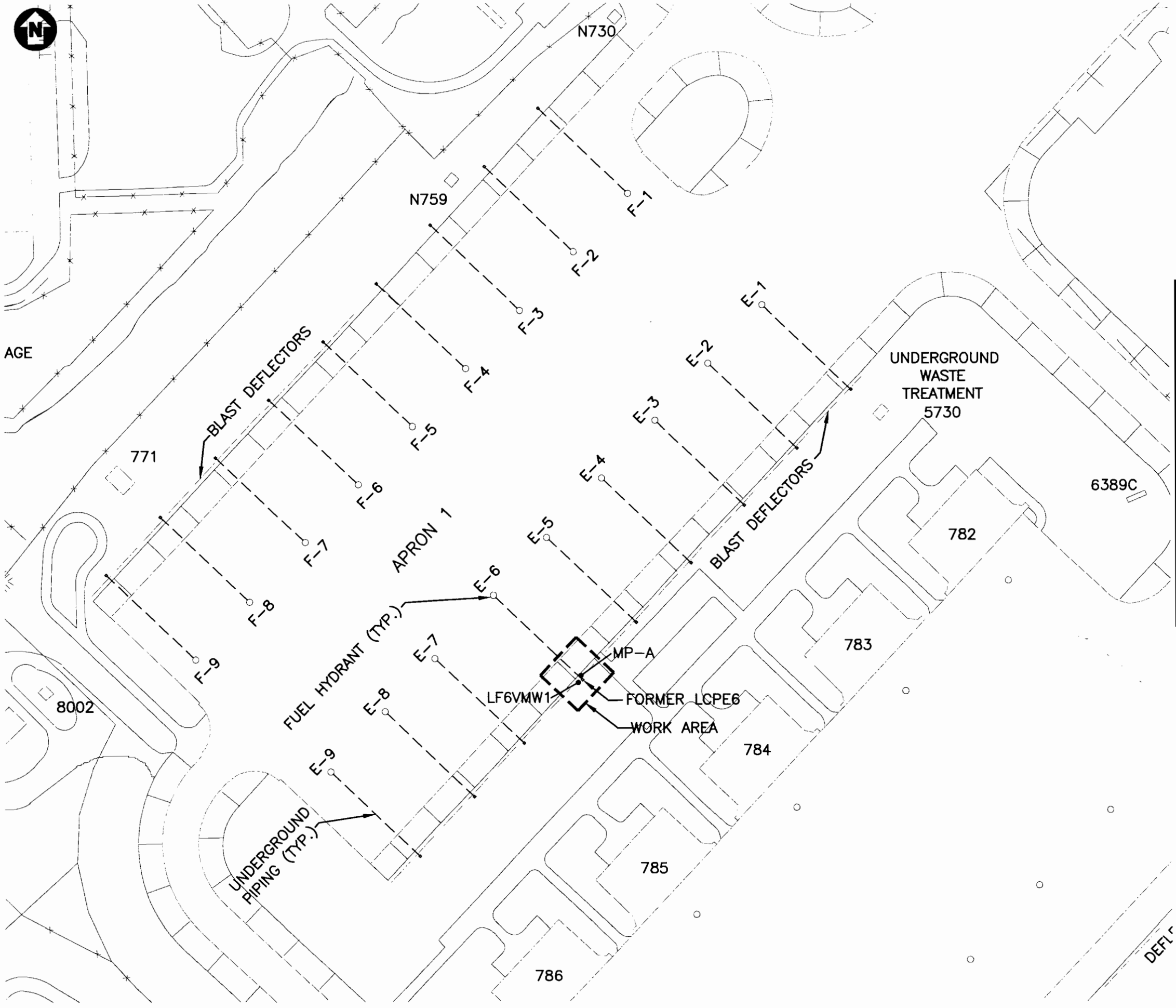
3.5 Site Restoration

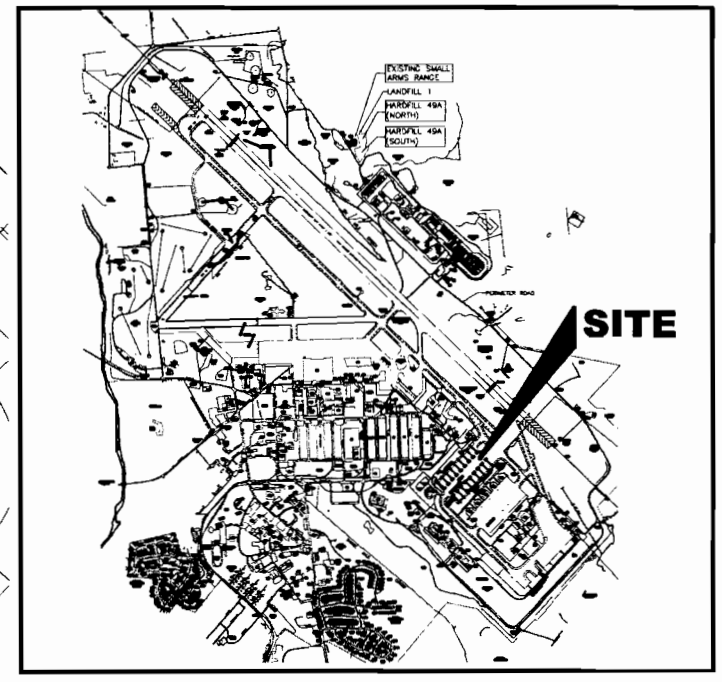
Following receipt of analytical results that confirm the excavated area to be below regulatory guidance values for dichlorobenzene compounds, the excavation will be backfilled with clean soil obtained from on-site sources. The backfilled areas will be graded to match existing contours and restored. The removed section of bioventing piping will be reinstalled and the bioventing systems will be re-activated.

SECTION 4.0 REPORTING REQUIREMENTS

A final letter report will be written that describes all activities associated with this removal action. The report will include:

- Confirmation sampling results.
- Waste manifests and weigh tickets.
- Volume calculations of soil removed.
- Daily field reports.





SITE MAP
SCALE: 1 INCH=5000 FEET

LEGEND

UNDERGROUND PIPING

LIMIT OF WORK AREA

200 100 0 200 400

SCALE: 1"=200'

FIGURE 1

FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

SITE LOCATION MAP

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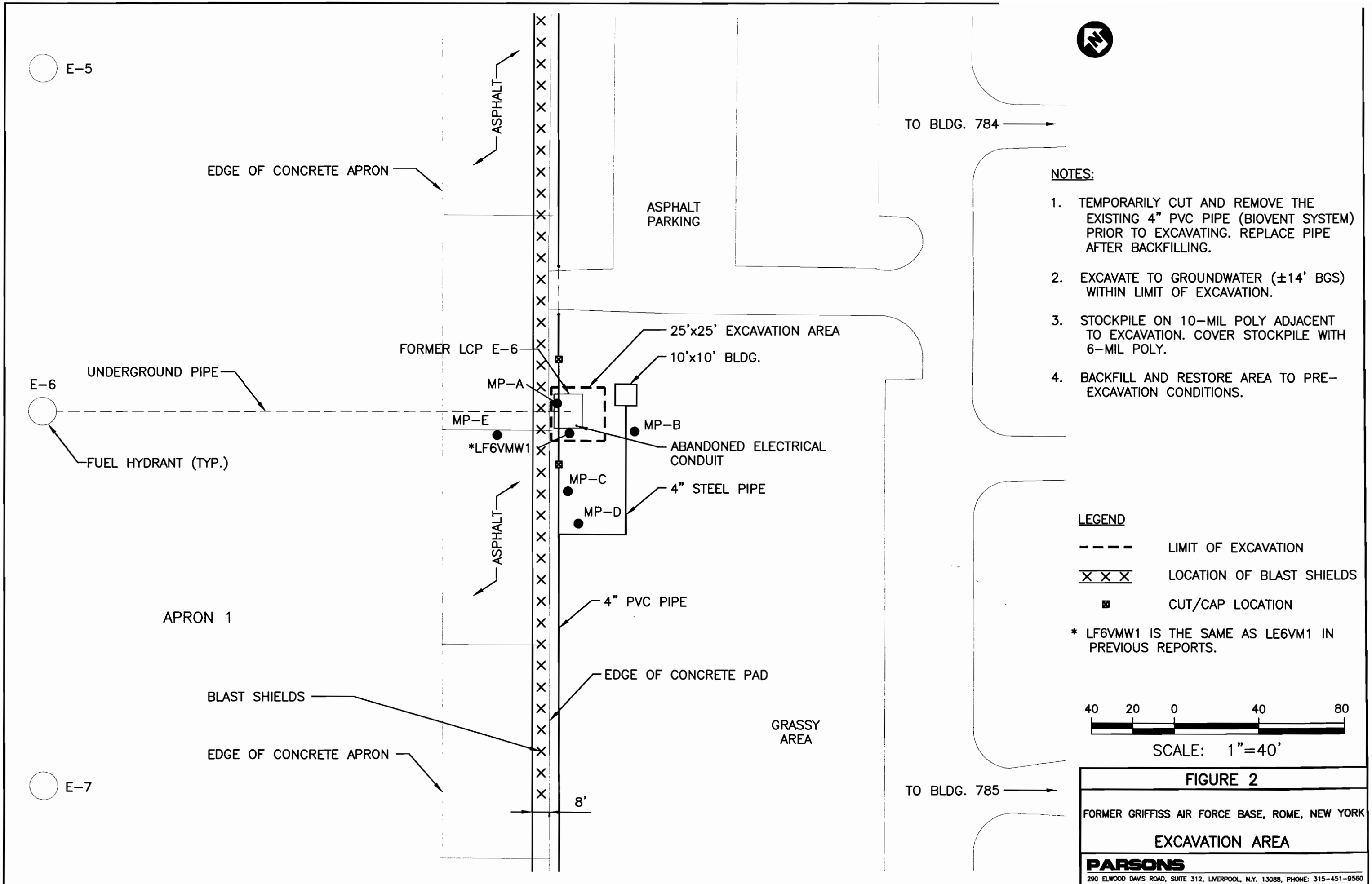

NOTES:

1. TEMPORARILY CUT AND REMOVE THE EXISTING 4" PVC PIPE (BIOVENT SYSTEM) PRIOR TO EXCAVATING. REPLACE PIPE AFTER BACKFILLING.
2. EXCAVATE TO GROUNDWATER (±14' BGS) WITHIN LIMIT OF EXCAVATION.
3. STOCKPILE ON 10-MIL POLY ADJACENT TO EXCAVATION. COVER STOCKPILE WITH 6-MIL POLY.
4. BACKFILL AND RESTORE AREA TO PRE-EXCAVATION CONDITIONS.

LEGEND

- LIMIT OF EXCAVATION
- LOCATION OF BLAST SHIELDS
- CUT/CAP LOCATION

* LF6VMW1 IS THE SAME AS LE6VM1 IN PREVIOUS REPORTS.

40 20 0 40 80

SCALE: 1"=40'

FIGURE 2

FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

EXCAVATION AREA

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