Report of Investigations of DEH Work Sites
Fort McClellan
Calhoun County, Alabama

PREPARED FOR:

US ARMY ENGINEERING AND SUPPORT CENTER, HUNTSVILLE

Contract No.: DACA87-95-D-0026

Task Order: Annex O

Project No.: ZE002500

Mobile District

BY:

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1.0 INTRODUCTION

Site investigations of the Directorate of Engineering and Housing (DEH) Work Sites at the former Fort McClellan, Alabama are being conducted to determine whether ordnance and explosives (OE) and OE-related scrap exist in topsoil at 11 areas where, from July 1996 to July 1999, soil from stockpiles that contained ordnance training items was transported and used as backfill. This report describes a brief history of the 11 DEH work sites, the work performed during the site investigations at the 11 DEH work sites, and the respective results.

1.1 Project Authorization

ZAPATAENGINEERING, P.A. is conducting the Site Investigation of DEH Work Sites under Contract No. DACA87-95-D-0026 (Task Order Annex O) from the US Army Engineering and Support Center, Huntsville (USAESCH), Alabama. The purpose of the Task Order is to perform a site investigation of the areas identified in the Statement of Work (SOW), Appendix A, for possible ordnance and explosives (OE) at the former Fort McClellan, Alabama. Site investigations were performed in accordance with the procedures outlined in the SOW.

1.2 Project Purpose and Scope

The purpose of the site investigations of the DEH work sites is to identify and remove any OE or OE-related items from the 11 suspect areas where backfill, excavated from stockpiles found to contain OE training items, was delivered and spread by DEH employees (or the housing occupants) between July 1996 and July 1999. The majority of the DEH work sites are within the former housing areas. The sites include 84 Drennen Drive, 940 3rd Avenue, 1876 8th Avenue, 2239 WAC Circle, 3311 Avery Drive, 3509 and 3512 Morton Road, 3406, 3742 and 3743 Littlebrant Drive and 3776 Cooper Road. The work was performed in a manner consistent with the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Section 104 and the National Contingency Plan (NCP) Sections 300.120(c) and 300.400(e). The site investigations were conducted in accordance with a site-specific workplan addendum to the December 1998 Engineering Evaluation/Cost Analysis (EE/CA) Workplan, both prepared by ZAPATAENGINEERING.

1.3 Background

From July 1996 through July 1999, backfill was borrowed from two stockpiles in an area known as Trench Hill and used for landscaping and back-filling numerous sites in and around Fort McClellan, primarily in the housing area. These stockpiles were later found to contain OE training items. The two items discovered in the Trench Hill training area were a 60mm M69 inert practice mortar and a MKII practice hand grenade with a 28.35 gram black powder flash charge. To determine if OE was transported to the sites where the backfill was used, the Fort McClellan Safety Office, assisted by the Directorate of the Environment (DOE) compiled the DEH work orders from this period and conducted reconnaissance of all the sites. Each site investigation included face-to-face meetings with actual DEH workers and supervisors who participated in the work order process to discuss specific site activities

and to identify specific areas of work activity. This revealed that much of the work performed included hand shoveling of the soil off a truck and then raking it. All of this information, including the actual work orders, sketches of site locations and results of the reconnaissance, was compiled into a report and provided to the USAESCH for review to determine if any sites required further investigation. After reviewing this report, the USAESCH determined that, for 11 of the sites, additional information was required to determine if OE could be present. A table identifying these sites was included in the Statement of Work, Appendix A.

2.0 SITE INVESTIGATIONS

Site investigations were conducted from July 31, 2000 through August 3, 2000. The site investigation team consisted of Mr. Jason Shiflet, ZAPATAENGINEERING and Messrs. Danny Paul and Ed Huguenin of USA Environmental, Inc. The investigation was conducted at 11 work sites in both restricted and non-restricted access housing areas throughout the cantonment area. Standard geophysical equipment, including the Schonstedt magnetometer and the EM-61, was used during the intrusive investigation. Mr. Danny Paul conducted safety briefings each morning. At the conclusion of each day, Mr. Paul completed a Daily UXO Summary of the day's activities. Refer to Appendices E and F, respectively.

2.1 Site Access

Access to restricted areas within the former Fort McClellan is controlled by the Transition Force Operations (TF Ops) located on the second floor in Building 215 on 15th Street. Sergeants First Class Fox and Paradeis maintain TF Ops, and every on-site contractor must coordinate activities through these individuals. The investigation team established the access permit on Monday July 31, 2000. The team received communication protocol instruction and was issued a radio for all on-post communication. The team proceeded to a mandatory safety program hosted by Mr. Mike Moore, a Department of Defense Safety Specialist.

2.2 Equipment Setup

The equipment used during the investigation included a Schonstedt magnetometer, a hand-held Geonics EM-61 and miscellaneous survey and hand tools. As determined in the Eastern Bypass EE/CA, the EM-61 is the appropriate geophysical instrument for use at Fort McClellan. The EM-61 is a device that generates electromagnetic pulses that trigger eddy currents in the subsurface. The eddy current decay produces a secondary magnetic field that is monitored by two receiving coils and recorded by an attached data logger. The instrument calibration was conducted at an ordnance test plot established by an on-site ordnance contractor, located just outside Building T-1997, at the outset of the investigation. The instrument was calibrated daily, thereafter, using a piece of scrap metal.

2.3 Investigation Protocol

The most probable munition, as determined by the USAESCH (Appendix A), is the Mk II practice hand grenade. The minimum separation distance for an unintentional detonation of an Mk II practice hand grenade is 200 feet. During all investigation activities,

Mr. Jason Shiflet maintained the minimum separation distance of 200 feet and monitored the area for unauthorized persons. If someone compromised the minimum separation distance, Mr. Shiflet notified Messrs. Paul and Huguenin, and intrusive investigation immediately stopped. Each site was visually inspected for surface items before conducting geophysical investigations. The approximate site dimensions were measured using 100-feet survey tapes and estimated right angles, referencing existing site features. A site sketch was made of each work site. Temporary lanes were established using 100-feet survey tapes. A preliminary geophysical survey for surface items was conducted using a Schonstedt magnetometer. Once obvious surface items were removed from the area, a geophysical survey was conducted using a hand-held EM-61. All geophysical anomalies detected by the EM-61 were inspected and classified for disposal.

2.4 DEH Work Site Investigations

The following discussion describes the investigations of each of the 11 sites. Sketch maps of each site are in Appendix C (Figures 1 through 11). Photographs of each site are in Appendix D.

2.4.1 Building 84

Building 84 is located on Drennen Drive. The building is a small single unit with a driveway and walkway from Drennen Drive. DEH work records indicate that half a load of fill dirt was delivered to and spread out on both sides of the walkway on August 27-29, 1997. Both sides of the walkway, now grass-covered, were investigated. See Figure 1 and Photograph 1. The total area of investigation is approximately 1,000 square feet. No OE or OE-related training items were discovered. Approximately 1.5 lbs. of non-ordnance related scrap metal were removed.

2.4.2 Building 940

Building 940 is located just off 3rd Avenue, southwest of the intersection of 3rd Avenue and 21st Street. The area of investigation is grass-covered, between 3rd Avenue and the parking lot for Building 940. See Photograph 2. DEH work records indicate that two loads of topsoil were delivered to and spread out over an area adjacent to 3rd Avenue on April 22-27, 1998. Approximately 3,054 square feet were investigated, as illustrated on Figure 2. No OE or OE-related training items were discovered. Approximately 2.5 lbs. of non-ordnance related scrap metal were removed.

2.4.3 Building 1876

Building 1876 is located at the corner of 8th Avenue and an unnamed street connecting 8th Avenue with Mac Arthur Avenue. Building 1876 is Boiler Plant No. 4 and the area of investigation is immediately behind the Plant, between the building and a dirt road, as illustrated on Figure 3. The DEH work records indicate two to three loads of soil were delivered to and spread out over an area near Building 1876 on February 23, 1999. See Photograph 3. On August 2, 2000, employees of Johnson Controls specified the location of the area of investigation based on personal memory. Approximately 1,485 square feet were investigated. No OE items were discovered. One OE-related training item, a blank adapter for an M16 rifle, was discovered. Approximately 15 lbs. of non-ordnance related scrap metal were removed.

2.4.4 Building 2239

Building 2239 was located on WAC Circle between Building 2238 and 2240. The single-unit building burned in a fire and was subsequently demolished. The area is now grass-covered and denoted with wooden stakes and white marking ribbon as shown in Photograph 4. The DEH work records indicate 16 loads of soil were delivered to and spread out over the area where Building 2239 once stood and at an adjacent erosional feature on January 21, 1999. Approximately 5,278 square feet were investigated, as illustrated on Figure 4. No OE or OE-related training items were discovered. Approximately 2.5 lbs. of non-ordnance related scrap metal were removed.

2.4.5 Building 3311

Building 3311 is the first duplex unit on the left on Avery Drive off Baltzell Gate Road. The area of investigation is located behind 3311B as shown in Photograph 5. The DEH work records indicate one load of soil was delivered to and dumped as close to the rear of the quarters as possible on March 13, 1998. The occupants spread the soil. Approximately 1,875 square feet were investigated, as illustrated on Figure 5. No OE or OE-related training items were discovered. Approximately 0.25 lb. of non-ordnance related scrap metal was removed.

2.4.6 Building 3509

Building 3509 is a duplex unit located on the northern side of Morton Road equidistant between intersections with Church and Baker Road. The area of investigation is grass-covered and located adjacent to and west of the northwestern corner of Building 3509A, between the building and the wooded area as shown in Photograph 6. DEH work records indicate 5 tons of soil were delivered to and dumped near the back corner of Building 3509A on May 9, 1997. The occupants spread the soil. Approximately 2,192 square feet were investigated, as illustrated on Figure 6. No OE or OE-related training items were discovered. Approximately 1.0 lb. of non-ordnance related scrap metal was removed.

2.4.7 Building 3512

Building 3512 is a multi-unit dwelling located on the southern side of Morton Road equidistant between intersections with Church and Baker Road. The area of investigation is grass-covered and located between Buildings 3510, 3512, 3514 and the parking area north of the building as shown in Photograph 7. DEH work records indicate one backhoe bucket load was delivered and spread on December 26, 1997. Approximately 1,382 square feet were investigated, as illustrated on Figure 7. No OE or OE-related training items were discovered. Approximately 1.0 lb. of non-ordnance related scrap metal was removed.

2.4.8 Building 3406

Building 3406 is the fourth duplex unit on the right on Littlebrant Drive, north of the Baker Road intersection. The area of investigation is located in the front yard of 3406A as shown in Photograph 8. DEH work records indicate an unknown amount of soil was transported to the building on May 7, 1997. Approximately 2,422 square feet were investigated, as illustrated on Figure 8. No OE or OE-related training items were discovered. Approximately 0.75 lb. of non-ordnance related scrap metal was removed.

2.4.9 Building 3742

Building 3742 is a duplex unit located on the north side of Littlebrant Drive equidistant between Bray and Turner Roads. The area of investigation is located throughout the front and back yards of 3742B as shown in Photograph 9. DEH work records indicate 18 tons of soil were delivered on May 8, 1997. The occupant spread the soil throughout the area. Approximately 8,161 square feet were investigated, as illustrated on Figure 9. No OE or OE-related training items were discovered. Approximately 1.0 lb. of non-ordnance related scrap metal was removed.

2.4.10 Building 3743

Building 3743 is a duplex unit located on the south side of Littlebrant Drive nearly equidistant between Bray and Turner Roads. The area of investigation is grass-covered and located just outside the front entrance to 3743A as shown in Photograph 10. DEH work records indicate one load of soil was delivered to and spread over the small area on October 23, 1997. Approximately 1,358 square feet were investigated, as illustrated on Figure 10. No OE, OE-related training items or non-ordnance related scrap metal was discovered.

2.4.11 Building 3776

Building 3776 is a duplex unit located on the north side of Cooper Road just south of the Turner Road intersection. The area of investigation is located along the bank between Buildings 3776A and 3774B as shown in Photograph 11. DEH work records indicate eight loads of soil were delivered to and spread out along the bank east of 3776A on February 5, 1999. Approximately 9,317 square feet were investigated, as illustrated on Figure 11. No OE or OE-related training items were discovered. Approximately 0.5 lb. of non-ordnance related scrap metal was removed.

3.0 SUMMARY AND CONCLUSIONS

Eleven DEH work sites, spread through the cantonment area of the former Fort McClellan, totaling approximately 37,524 square feet were geophysically and intrusively investigated. No OE items were discovered. One OE-related training item, an M16 blank adapter, was discovered at Building 1876. However, Mr. Danny Paul, the Senior UXO Supervisor, stated that M16 blank adapters are extremely common on military posts and warrant no concern. Approximately 26 lbs. of non-ordnance related scrap metal, including nails, rebar, horseshoes, bolts, steel wire, needle-nose pliers, steel grates and miscellaneous scrap metal were recovered. All items located by the EM-61 were intrusively investigated during the geophysical survey. All non-ordnance related scrap discovered was collected and held until the end of the project. The non-ordnance related scrap was released to an on-site ordnance contractor for recycling. Based on these findings, ZAPATAENGINEERING concludes the 11 DEH work sites investigated in this report are free of potential OE hazards and no further Department of Defense action is necessary.

Appendix A

US Army Engineering and Support Center, Huntsville
Statement of Work

Site Investigations

At

FORT MCCLELLAN

FORT MCCLELLAN, ALABAMA

STATEMENT OF WORK

SITE INVESTIGATIONS

AT

FORT MCCLELLAN, ALABAMA

1.0 **OBJECTIVE.** The objective of this task order is to perform a site investigation for the areas identified in this statement of work for possible Ordnance and Explosives at Fort McClellan, Alabama.

2.0 **BACKGROUND.**

2.1 General.

2.1.1 The work required under this Scope of Work (SOW) falls under the Base Realignment and Closure Act. Ordnance and Explosives (OE) and OE-related scrap contamination is suspected to exist on this property owned by the Department of the Army.

2.1.2 OE is a safety hazard and may constitute an imminent endangerment. Unexploded ordnance (UXO) may be buried on the site or may possibly be on the ground surface. Chemical Warfare Materiels (CWM) is not suspected to exist within the limits where this work will be performed although CWM was stored at Fort McClellan. However, if any suspect CWM is discovered, the Architect-Engineer (A-E) should stop work immediately, withdraw from the area, and notify the *local law enforcement agency* (ask Hank who the correct agency is). The work done under this SOW will be performed in a manner consistent with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Section 104, and the National Contingency Plan (NCP) Sections 300.120(c) and 300.400(e). The Architect-Engineer (A-E) shall provide the UXO specialist(s). No Federal, State, or Local permits are required for any access or remedial action taken on this site. The applicable provisions of 29 CFR 1910.120 shall apply.

2.2 Site Description. Fort McClellan is located northeast of the City of Anniston, Calhoun County, Alabama. To the west are the areas known as Weaver and Blue Mountain. To the North is the City of Jacksonville. The Talladega Forest is to the east of the post.

2.3 Site History. Fort McClellan has been used for artillery training of troops and the National Guard as early as 1912 to present day. In 1941, McClellan became site of the Chemical Corps Training Command. In 1962, the U.S. Army Combat Developments Command Chemical

Biological-Radiological Agency moved to Fort McClellan. In 1973, the Chemical Corps School along with the U.S. Army Combat Developments Command Chemical Biological-Radiological Agency closed. In 1979, the U.S. Army Chemical Corps School re-established along with a training Brigade for Basic Training.

2.4 DEH Work Sites. From July 1996 through July 1999 topsoil was borrowed from two stockpiles and used for landscaping and backfilling numerous sites in and around Fort McClellan but primarily located in the housing area. These stockpiles were later found to contain OE. In order to determine if OE was possibly transported to the sites where the topsoil was used, the Fort McClellan Safety Office assisted by DOE compiled the DEH work orders from this period and conducted reconnaissance of all the sites. Each site investigation included face-to-face meetings with actual DEH workers and supervisors who participated in the work order process to discuss specific site activities and to identify specific areas of work activity. This revealed that much of the work performed included hand shoveling all of the soil off of a truck and then raking it. All of this information, including the actual work orders, sketches of site locations, and results of the reconnaissance was compiled into a report and provided to CEHNC to review to determine if any sites required further investigation. A copy of this report will also be provided to the A-E. After reviewing this report CEHNC determined that for ten of the sites additional information was required to determine if OE could be present. A table identifying these sites has been included in Appendix A.

3.0 **SPECIFIC REQUIREMENTS**

3.1 (TASK 1) SITE VISIT and RECORDS REVIEW. The A-E shall make a site visit, review pertinent maps, records, and documents. The purpose of this task is to permit those members of the A-E with direct project responsibility to gain necessary information about site conditions. A site visit is authorized to assist in preparing the work plan. The site visit team shall not exceed four (3) persons and shall include one (1) Senior UXO Supervisor. The A-E will coordinate the site visit with the Contracting Officer (CO) 10 days prior to arriving on site. The A-E will prepare an abbreviated SSHP and submit it to the CO for review and approval prior to the visit. The format for the abbreviated SSHP will be provided by CEHNC. The A-E shall ensure that the site visit is fully coordinated and that all members of the site visit team maintain compliance with the abbreviated SSHP.

3.2 (TASK 2) PREPARE WORK PLANS.

3.2.1 Work Plan. The A-E shall prepare and submit a site-specific amendment to the existing approved work plan for this project. The site-specific amendment to the work plan shall describe in detail the site background and history, investigation objectives, all proposed investigative activities, equipment, procedures, personnel, and schedule. The site-specific amendment to the work plan shall propose site locations and the anticipated work that shall be conducted. The site-specific amendment to the work plan shall include sub-plans and standing operating procedures (SOPs). The A-E shall not repeat information that has already been provided in the existing work plan, but shall provide only new information related specifically to the work required by this statement of work.

3.2.2 Health and Safety Program (HSP). The A-E shall develop and maintain a Health and Safety Program in compliance with the requirements of OSHA standard 29 CFR 1910.120(b)(1) through (b)(4). The A-E will submit to the CO written certification that the HSP has been developed and implemented and the plans shall be made available upon request. The A-E shall utilize the existing approved Site-Specific Safety and Health Plan (SSHP) IAW the requirements of Paragraph 7.0 of this SOW. Any additional information required for the SSHP shall be included as part of the site-specific amendment to the existing work plan. The A-E will submit all amendments to the SSHP to the CO for approval prior to beginning any fieldwork described in this task. He will perform all work IAW the approved plan. Due to the inherent risk of UXO work, UXO related activities shall be limited to a 40-hour workweek (either five 8-hour or four 10-hour days). UXO personnel shall not perform UXO-related tasks for more than 10 hours per day.

3.3 (TASK 3) Site Investigation. The A-E shall investigate the sites that have potential for containing OE as identified in Appendix A. These investigations may include visual reconnaissance, investigation of subsurface anomalies, or other methods as approved in the work plan.

3.3.1. Geophysical Investigation. The A-E shall utilize the Geophysical proveout previously performed at Fort McClellan in order to select any geophysical instrument required. Field instruments shall be field tested daily to ensure that they are operating properly. The A-E shall identify in the work plan, for Government approval, the type of inert round or very similar

magnetic inert item that shall be planted, and the specified depth. If an instrument does not meet the standard during the daily check, it shall be calibrated, repaired, or replaced.

3.3.2 Sampling. The AE shall provide all necessary personnel and equipment to perform OE sampling at the site. The purpose of anomaly excavation is to determine the presence and nature of OE contamination. All anomalies need not necessarily be excavated. Results from geophysical investigations shall be utilized to identify anomalies to be excavated. The AE shall dispose of all OE excavated or otherwise located during this investigation, however no demolitions shall be performed that may jeopardize any historical or archeological structure or location. The AE shall excavate to a depth of three feet to determine the identity of selected magnetic anomalies. If deeper excavation is required, the on-site Huntsville Center Safety specialist or the Project Manager will make the decision.

3.3.2.1 Only USAESCH approved UXO personnel shall perform OE-related tasks.

3.3.2.2 The A-E shall maintain a detailed accounting of all OE items/components encountered. This accounting shall include the amounts of OE, identification, condition, depth located, disposition and location/mapping.

3.3.2.3 An accountability system shall be used to account for all demolition materials expended in the disposal of OE.

3.3.2.4 The A-E shall plan to provide demolition materials for disposal of OE items and storage facilities for demolition materials. This shall be outlined in the WP.

3.3.2.5 If an excavation is required in an area of an endangered/ protected plant or animal, excavation shall proceed only after approval by the proper officials.

3.3.2.6 Approval by USAESCH Safety is required for OE disposal and schedule for destruction.

3.3.2.7 All access/excavation/detonation holes shall be backfilled.

3.4 (Task 4) - PREPARE REPORT.

3.4.1 The A-E shall prepare and submit a report fully documenting all fieldwork and subsequent evaluations and recommendations made by the A-E. The report shall describe the site history, briefly describe previous work conducted at Fort McClellan, the work conducted under this task order, and the results. The report shall also contain the A-E's conclusions as to the nature and extent of OE at Fort McClellan and provide recommendations for future work at Fort McClellan. The textual portions of the report shall be fully supported with accompanying

maps, charts, and tables as necessary to fully describe and document all work performed and all conclusions and recommendations presented.

3.5 (TASK 5) MEETINGS. The A-E shall attend and participate in meetings with DoD, regulatory, and civilian agencies as directed by the CO.

3.6 (TASK 6) PROJECT MANAGEMENT. The A-E shall, during the life of the task order, manage the task order in accordance with the SOW. All project management associated with this task order, with the exception of direct technical oversight of work described in the preceding tasks, shall be accounted for in this task.

4.0 A-E QUALIFICATIONS and PROJECT MANAGEMENT.

4.1 The A-E shall furnish a staff that is qualified through training and experience to safely accomplish the objective and tasks of this SOW. All personnel shall be identified in the WP and their resumes included.

4.2 Training and all other requirements of 29 CFR 1910.120.

4.3 The A-E shall, during the life of the Task Order, manage the Task Order to accomplish the SOW. The Work Task Proposals shall include scope or level of effort required for the task, milestones, expected completion dates, and any other planning data the A-E will use to accomplish each task.

5.0 SCHEDULE OF MEETINGS AND DELIVERABLES

5.1 Deliverables. The A-E shall provide the indicated deliverables on the following schedule:

Deliverables	**Days after NTP**
ASSHP	10 days prior to site visit
Draft Site-Specific Amendment	TBD
Final Site-Specific Amendment	TBD
Progress/Meeting Report	10 days after event
Status Report	Monthly
Telephone/Conversation Report	Monthly
Draft Report	TBD
Final Report	

	TBD
OVERALL COMPLETION DATE	30 Jun 00

Status Reports and Telephone/Conversation Reports are due monthly. The original of each of these reports shall be sent within 10 days of the end of the reporting period by normal mail to:

Commander US Army Engineering and Support Center, Huntsville ATTN: CEHNC-PM (Mr. David Skridulis) P.O. Box 1600 4820 University Square Huntsville, Alabama 35816-1822

5.2 Addresses and Distribution The A-E shall furnish copies of the plans and reports as indicated to each addressee listed below in the quantities indicated. The A-E shall use express mail services for delivering these plans and reports. Following each submission, comments generated as a result of their review shall be incorporated. All comments will be sent to the CEHNC Project Manager for consolidation prior to incorporation. All comments should be referenced to support those comments. The following addresses shall be used in mailing submittals:

ADDRESSEE	**Draft Submittals**	**Draft-Final & Final Submittals**
Commander US Army Engineering and Support Center, Huntsville ATTN: CEHNC-PM (Mr. David Skridulis) 4820 University Square Huntsville, Alabama 35816-1822	6	6
Commander US Army Engineer District, Mobile ATTN: CESAM-EN-GH (Mr. Ellis Pope) 109 St. Joseph St. Mobile, AL 36602-3630	2	2
U.S. Environmental Protection Agency Atlanta Federal Center ATTN: Mr. Bart Reedy	2	2

100 Alabama St. SW Atlanta, GA 30303		
Alabama Department of Environmental Management Government Facilities Section, Haz Waste Branch, Land Division ATTN: Mr. Chris Johnson P.O. Box 301463 Montgomery, AL 36130-1463	2	2
U.S. Army Chemical and Military Police Centers & Fort McClellan Directorate of Environment Bldg. 141A, 13th Ave ATTN: ATZN-EM Fort McClellan, AL 36205	6	6

6.0 SUBMITTALS and CORRESPONDENCE

6.1 Format and Content of Engineering Report. All drawings shall be of engineering quality with sufficient details. The report shall consist of 8 1/2" X 11" sheets of paper. The report covers shall consist of durable binders and shall hold pages firmly while allowing easy removal, addition, or replacement of pages. A title shall identify the site, the A-E, the Huntsville Center, and date. The A-E's identification shall not dominate the title page.

6.2 Review Comments. The A-E shall review all comments received through the CEHNC Project Manager and evaluate their appropriateness based upon their merit. The A-E shall incorporate all applicable comments and provide a written response to each comment no later than 21 days after the A-E receives the comment.

6.3 Identification of Responsible Personnel. Each submittal shall identify the specific members and title of the subcontractor and A-E's staff, which had significant input into the report. All final submittals shall be sealed by a registered Professional Engineer-In-Charge.

6.4 Presentations. The A-E shall make presentations of work performed and as directed by the CO. The presentation shall consist of a summary of the work accomplished and will be followed by an open discussion.

6.5 Minutes of Meetings. Following the presentation and the public meeting, the A-E shall prepare and submit minutes of the meeting within 10 working days to the CO.

6.6 Correspondence. The A-E shall keep a record of phone conversations and written correspondence affecting decisions relating to the performance of this task order. A summary of the phone conversations and copies of written correspondence shall be submitted to the CO with the monthly progress report.

6.7 Monthly Progress Report. The A-E shall prepare and submit monthly progress reports describing the work performed since the previous report, work currently underway, and work anticipated. The report shall state whether current work is on schedule. If the work is not on schedule, the A-E shall state what actions will be taken in order to get back on schedule. The report shall be submitted to the CO not later than the 10th day of each calendar month.

6.8 Computer Files. All final text files generated by the A-E under this task order shall be furnished to the CO in WordPerfect 6.0, IBM PC-compatible format. All drawings shall be on reproducible (Mylar) and digitized 3D-design file in Intergraph Corporation format, compatible with CEHNC Graphics system.

7.0 **SAFETY REQUIREMENTS.** The A-E shall develop and implement a Health and Safety Program in compliance with the requirements of OSHA standard 29 CFR 1910.120 (b)(1) through (b)(4) as required for this effort. Written certification that the health and safety program has been developed and implemented shall be submitted to the Contracting Officer. The written program shall be made available upon request.

8.0 **Public Affairs.** The A-E shall not publicly disclose any data generated or reviewed under this contract. The A-E shall refer all requests for information concerning the site condition to the CEHNC Project Manager. Reports and data generated under this task order are the property of the Department of Defense and distribution to any other sources by the A-E, unless authorized by the CO, is prohibited.

9.0 **REFERENCES.**

9.1 "U.S. Army Corps of Engineers Safety and Health Requirements Manual", U.S. Army Engineer Manual EM 385-1-1, September 1996.

9.2 "Safety Concepts for Unexploded Ordnance", ETL 385-1-1, Huntsville Division, U.S. Army Corps of Engineers, 16 December 1992

9.3 “Accident Reporting and Records” with USACE Supplement, AR 385-40, 1 November 1994 w/chgs

9.4 “Ammunition and Explosive Standards”, TM 9-1300-206, 30 August 1973 w/chgs

9.5 "Safety and Occupational Health Document Requirements for Hazardous, Toxic, and Radioactive Waste (HTRW) and Ordnance and Explosive Waste (OEW) Activities", Engineer Regulations 385-1-92, 18 March 1994.

9.6 “Archives Search Report”, U.S. Army Corps of Engineers, St. Louis District, April 1997.

9.7 “Occupational Safety and Health Administration Standards”, (29 CFR 1910 and 1926).

9.8 "Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities", NIOSH/OSHA/USCG/EPA, October 1985.

9.9 "Emergency Eyewash and Shower Equipment", ANZI Z-358.1, 1990.

9.10 "Annual Book of ASTM Standards", Current edition.

9.11 "Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA" EPA/540/G-89/004, October 1988.

9.12 “CERCLA Compliance With Other Laws Manual”, Parts I and II, USEPA, 1988b.

9.13 “Methods for Evaluation the Attainment of Cleanup Standards”, Volume I - Soils and Solid Media, USEPA, 1989e.

9.14 “Cost Engineering Policy”, U.S. Army Engineering Regulation No. 1110-3-1301, April.

9.15 Code of Federal Regulations, 40 CFR, Parts 190-299. latest edition.

9.16 Code of Federal Regulations, [n.d.] "Hazardous Waste Operations and Emergency Response." CFR 1910.120, Final Rule.

9.17 “Compendium of Superfund Field Operations Methods”, USEPA, 1987.

9.18 "Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA”, USEPA 540/g89/004, October 1988.

9.19 “Ammunition and Explosives Safety Standards”, DOD 6055.9-STD, 30 October 1992

9.20 “Risk Assessment Guidance for Superfund (RAGS)”, Vols I and II, US Environmental Protection Agency (EPA. 1989b

9.21 “General Information on EOD Disposal Procedures”, TM 60A-1-1-31, 19 January 1982 w/chgs

9.22 “Site Summary and Project Summary Sheets foe DERP-FUDS Site No. I04AL005700", CESAM-PD-E, 28 April 1992

9.23 “ Ordnance and Explosives Cost Estimating Risk Tool (OE Cert) Standing Operating Procedure (SOP)”. DRAFT. CEHNC 1115-3-86, August 1996.

** Additional References may be incorporated and will be finalized at the completion of negotiations.

APPENDIX A

Location	Depth of Fill	Date	Recommendation	Remarks
	Amount of Fill			
8	2-6"	10/28/1997	NOFA	dirt was sloped from quarters, hand raked, seeded
15	est 2-6"	3/21/1997	NOFA	dirt was hand shoveled into area
27A	est 2-6"	3/4/1997	NOFA	very little top soil was used for reseeding
83	est 1"	10/8/1997	NOFA	filled tire ruts, raked and seeded
84	UNK	8/22/1997	Investigate	depth is unknown, all soil was hand raked
86	est 1-2"	3/25/1997	NOFA	top soil was spread and seeded by hand
292	est 2-6"	10/15/1996	NOFA	top soil was spread over the area and seeded by hand
350	est 2-3"	4/4/1997	NOFA	top soil was placed in fencepost holes, 1-2 shovels per hole
900	est 6"	4/22/1998	Investigate	soil was extremely wet, check ditch area
941	est 1"	11/18/1998	NOFA	filled tire ruts, raked and seeded
1876	UNK	2/23/1999	Investigate	areas in and around pits backfilled, 2-3 loads of dirt
2000	NA	1/15/1999	NOFA	No fill dirt used
2238	18-24"	1/20/1999	Investigate	area was backfilled to cover bldg demolition
3173	est 2-4"	5/26/1998	NOFA	dirt was used to fill in tire ruts, raked and seeded
3404	Missing			
3708	est 2-6"	9/25/1996	NOFA	top soil was spread over the area and seeded by hand
3732	est 2-6"	9/26/1996	NOFA	top soil was spread over the area and seeded by hand, filled tire depressions
3311B	UNK	3/12/1998	Investigate	occupants spread soil,

				not JOHNSON Controls
3322A	est 1-4"	4/14/1998	NOFA	dirt was hand shoveled into area and raked, seeded
3406A	UNK	5/2/1997	Investigate	occupants spread soil, not JOHNSON Controls
3507A	None	1/26/1998	NOFA	No fill dirt used
3507B	est 2-4"	6/9/1997	NOFA	dirt was spread by backhoe inches deep
3509A	5 tons	5/8/1997	Investigate	occupants spread soil, not JOHNSON Controls
3511B	est 2-6"	10/7/1996	NOFA	top soil was spread over the area and seeded by hand
3512C	UNK	12/23/1997	Investigate	soil was dropped in hole, compacted, raked and seeded
3528F	est 2-4"	8/7/1997	NOFA	top soil was hand shoveled on truck and off
3612A	None	3/30/1998	NOFA	No fill dirt used
3615B	est 2-4"	7/16/1997	NOFA	top soil spread, raked and seeded by hand
3659B	est 12"	11/24/1997	NOFA	top soil spread, raked and seeded by hand
3700E	est 1-2"	6/1/1998	NOFA	small amount of soil used to backfill to sidewalk
3702D	UNK	3/31/1998	NOFA	all dirt trf from backhoe to wheel barrow by hand, raked and seeded
3710A	NA	4/11/1997	NOFA	dirt used was not from suspect pile
3712A	NA	2/19/1999	NOFA	No fill dirt used
3721D	est 2-6"	1/5/1998	NOFA	filled in fence post holes, raked, seeded
3722C	est 2-4"	7/10/1997	NOFA	one backhoe bucket, compacted and seeded
3737B	est 2-4"	12/1/1997	NOFA	filled in ruts, raked and seeded
3742B	18 Ton	5/8/1997	Investigate	occupants spread soil, not JOHNSON Controls
3743A	24-30"	10/15/1997	Investigate	filled in hole, raked and seeded
3744A	1/3 truck	5/9/1997	NOFA	dirt was from DEH yard,

				not suspect soil
3770B	est 1"	11/25/1997	NOFA	entire front yard was leveled off and top soil spread, raked, and seeded
3776A	est 2-4"	2/5/1999	Investigate	depth is unknown, all soil was hand raked
B43	UNK	8/20/1998	NOFA	dirt was spread across B43 in unknown locations, no stockpile left
Buckner Circle	UNK	11/7/1996	NOFA	did not use dirt from pile for fill, did use it for seeding
cemetery	9	10/21/1996	NOFA	No exposure to personnel (4430)
Guillion	1-2"	6/29/1998	NOFA	small amounts of soil used in many small holes thru out field
Post Running	est 1-3"	4/3/1997	NOFA	one to two shovels of dirt around each drain
German/Italian	est 2-4"	9/5/1997	NOFA	dirt was used to fill in tire ruts, raked and seeded
Range 23A	NA	5/19/1998	NOFA	No fill dirt used

APPENDIX B

Minimum Separation Distance
Fill Dirt Borrowed from Trench Hill Training Area
Ft. McClellan
25 July 2000

REQUESTED BY: Valerie Clinkenbeard
PREPARED BY: Michelle Crull, PhD, PE

Trench Hill Training Area was used as a training area. Past activities included borrowing soil from this training area to use as fill at various sites on Ft. McClellan. There is no indication that high explosives were ever used in this area. The following practice rounds may be found in this area:

60 mm M69 – practice mortar, inert, no explosive filler

Practice Hand grenade, Mk II – delay fuze with 28.35 gram black powder flash charge

The ASR said that unidentified pyrotechnics may be present.

Of these items, the worst explosive effects will be produced by the Practice Hand Grenade, Mk II (this is the MPM for all DEH sites where fill from Trench Hill Training Area was placed).

The minimum separation distance for unintentional detonations is 200 ft based on the Mk II Practice Hand Grenade.

Donor charge for intentional detonations will be 0.25 lbs cast booster (0.25 lbs TNT equivalent). K328 based on donor charge + Mk II practice hand grenade is 237 ft.

SANDBAG ENCLOSURE FOR INTENTIONAL DETONATIONS

Required Sandbag Thickness = 12 in. with 6" standoff between munition and sandbags
Sandbag Throw Distance = 25 ft
Minimum Separation Distance = 200 ft
Maximum Peak Overpressure at 40 ft = 0.05 psi

The required sandbag thickness and the sandbag throw distance were calculated IAW CEHNC-ED-CS-S-98-7. The minimum separation distance is based on the largest of the sandbag throw distance or 200 ft or the K328 distance for the total NEW (munition plus donor charge). A copy of HNC-ED-CS-S-98-7, "Use of Sandbags for Mitigation of Fragmentation and Blast Effects Due to Intentional Detonation of Munitions" must be available on site. This report may be downloaded from the USAESCH homepage at http://www.hnd.usace.army.mil Select "Product Lines", "Ordnance and Explosives", "Innovative Technology", then "Analytical Tools". The first time you access the site you will have to

register. You will be notified by e-mail when your login and password have been activated. You must have a login and password to download the report.

Michelle Crull 7/25/00
Subject Matter Expert Date

William H. Zehnd Jr. 25 Ju
CEHNC-ED-CS-S Date
Branch Chief

Appendix B

Directorate of Engineering and Housing Report (Excerpts)

MOORE, MICHAEL

From: MOORE, MICHAEL
Sent: Friday, September 03, 1999 11:08 AM
To: LEVY, RON
Cc: JAMES, PAUL; SMITH, RONALD; MORRISON, MAJ JAMES; SHANKS, BILLY; DOYLE, JOSEPH; 'David.J.Skridulis@HND01.usace.army.mil'; 'Hank.C.Hubbard@HND01.usace.army.mil'
Subject: Contaminated Dirt Pile Findings

1. A notebook containing DEH work orders (Jul 96 - Jul 99) where top soil was used around Ft. McClellan from a suspect UXO contaminated dirt pile, will be mailed to COE Huntsville, ATTN: Hank Hubbard. The investigative findings and drawings showing work area are included.

2. I have an original in my office if we need further copies. The Safety office and DOE were ably assisted by MAJ Schweighart, a reserve ordnance officer, who was here for two weeks AT.

3. After a ground, on site, surface examination of each work area, it was determined only one area had the potential for subsurface UXO. We need help from Huntsville COE to definitively eliminate any suspicion of UXO being present at the old building 2238 site.

4. Building 2238 was demolished, approximately 2' of backfill was used, with a total of 16 loads of dirt required to complete the job.

5. Each site was investigated to include face- to-face meetings with the actual DEH workers and supervisors who participated in the work order process to discuss and point out the specific areas of work activity.

Mike Moore
Safety Manager
DSN: 865-5238
COMM: (256) 848-5238
EMAIL: moorem@mcclellan-emh2.army.mil

SAFETY IS FORCE PROTECTION!

12 August 1999

SUBJECT: Examination of ground surface (topsoil/fill dirt work orders) for evidence of OE.

PARTICIPANTS

Michael Moore	Safety Manager
Ron Smith	Natural Resources, Biologist
Ricky Woodall	Work Supervisor, Johnson Controls
Major Michael Schweighart	U.S. Army Reserve, 80th Division
Jeanie Payne	Ground Crew employee, Johnson Controls

DEFINITIONS

Ordnance and Explosives (OE) - Bombs, warheads, guided and ballistic missiles, artillery and mortars, rocket ammunition, mines, demolition charges, pyrotechnics, grenades, contained and uncontained explosives and propellants, military chemical agents, and all similar and related items or components, explosive in nature or otherwise designed to cause damage to personnel or material.

Unexploded Ordnance (UXO) - Military munitions that have been primed, fused, armed, or otherwise prepared for action, and have not been fired, dropped, launched, projected, or placed in such a manner as to constitute a hazard to operations, installation personnel, or material and remain unexploded either by malfunction, design, or any other cause. UXO is a subset of OE.

Ordnance-Related Scrap (ORS) - Items that are fragments of functioned ordnance as designed or intentionally destroyed, and contain no explosive or other items of dangerous nature. ORS is inert and does not pose a safety risk.

ASSUMPTIONS

1. Work order concerning the opening and closing of graves are UXO free.

2. That because heavy equipment was used to level and compact the topsoil at time of actual work would indicate that the affected area is safe in that no explosions or visual sightings of UXO were reported.

3. That housing are work (spreading of topsoil) performed by the occupants is UXO free because of no known UXO reports investigated during time period of the work order.

4. That current ground conditions and the effects of weathering (such as erosion, wetting and drying and/or frost heave) would expose any UXO in soil where depth of topsoil spread did not exceed 2 - 3 inches, over a period of 18 - 24 months.

5. Ground crew work orders concerning the top soil provided for review were all inclusive (no sites unknown).

INVESTIGATION

After an introduction/background to the UXO situation concerning two stockpiles of topsoil used by the post ground maintenance crews in and around Ft. McClellan; ground reconnaissance was conducted from 4 – 12 August 1999. The workorders were organized by area within Ft. McClellan to concentrate work efforts on a particular day.

Jeanie Payne, a ground crew employee of Johnson Controls was provided as an escort and had firsthand knowledge of many of the workorders. Workorders unknown to Jeanie Payne, were discussed with other employees of Johnson Controls. On back of the workorders, site sketches were drawn and notes were taken.

Wednesday, 4 Aug 99 (Site Inspections)

3511	3615B	3311B	3406A	German – Italian Cemetery
3509A	3659B	3322B	3404	
3507B	3612A			
3528F				
3512C				
3507A				

Thursday, 5 Aug 99 (Site Inspections)

3708	3732	3710A	3742B	3744A
3722C	3743A	3770B	3737B	3721D
3702D	3700E	3776A		

Friday, 6 Aug 99 (Site Inspections)

27A	15	86	84	83
292	350	8		

Wednesday, 11 Aug 99 (Site Inspections); Escort: Kenny Gurley

Post Running Track	900 Area	Trng Area B43
941	2000 Area	2238**
1876		

** **NOTE**: depth of fill 18 – 24 inches, over 30'x 30' area & 10' x 20' area

Thursday, 12 Aug 99 (Site Inspections)
Sink holes behind Buckner Circle
Guillion Field

FINDINGS

Many of the worksites included the spreading of topsoil for growing grass to improve the appearance of the housing area. Multiple number of employees made up the work crews; providing extra eyes to survey the task/work at hand. Ricky Woodall, Work Supervisor or Vickie Higgins, Foreman, of Johnson Controls check each job completed to provide accountability/closure on the work performed. Hand work of soil from shoveling off the truck and racking was performed in many instances. No UXO or ORS sightings was reported to the Post Safety Manager's Office or to the Work Supervisor of Johnson Controls as work crews performed their tasks and duties, nor were their incidents of housing occupants making any such reports.

Where fill dirt/topsoil was placed in greater depth (3"– 6"), heavy equipment (loader, backhoe and/or bobcat) was used in the compaction and leveling of the soil. No incidents of reported UXO or ORS by the work crews or housing occupants.

The workorder; ref: refill with fresh dirt, seed and straw around area where quarters were demolished; Facility # 2238 requires additional investigation. Two areas of size and depth of fill are present. 16 loads of fill dirt was required to complete this job. The workorder was closed on 3/22/99. The site has not had the effects of weathering yet (erosion, wetting and drying, and/or frost heave) that may potentially allow buried items to migrate to the surface.

The workorder record shows that much of the work completed within the past 18 – 24 months. The ground reconnaissance provided a current snapshot of the worksites/terrain. The ground reconnaissance effort did not reveal evidence of ordnance contamination. No underground detecting was performed during this inspection period.

SHOP CODE: 02
FT MCCL

SERVICE ORDER V. Higgins

PCN AKJ-008

YED: 22-AUG-97 13:54

RECEPTIONIST: AK

**** DOCUMENT NUMBER ****				RPF INSTL	FACILITY	EQUIPMENT	FAM HSG	PARTITION
CUST ID	SER NO	FY	TYPE	ABBR	NUMBER	ID	QTRS NO	NO
FH	18386	7	R	FT MCCL	00084		S	

WORK POC NAME	WORK POC PHONE	WORK LOCATION
SSG NORWOOD	848-3052	84 DRENNAN DRIVE

WORK DESCRIPTION

DELIVER 1/2 LOAD TOP SOIL AND 10 LBS OF SEED FOR THE FRONT YARD OF QUARTERS #84
(AW IJO # FH700667J

CONTAMINATION DATE: 26-JAN-94
CONTAMINATION DESCRIPTION: HISTORICAL BUILDING
CONTAMINATION REMARKS: NONE

RECEIVED AUG 22 1997 EW

REMARK:

WORKCLASS CODE: K
COMPONENT CODE:
TECH DAT ACT CD: K31000
APC: K6PD
CONTRACT NUMBER:
TRANG CLASS CD:

SO PRIORITY: 2
REIMB CUST ID: FH
SPEC INT CODE:
PROG IND CODE:
TASK CODE: 0261
TASK DESC: IMPROVE GROUNDS
TASK UNIT: 1

Access Attempted (Time & Dates):

Appointment's Attempted:

Date/Time Start: 8-27-97 7:30 Date/Time Completed: 8/29/97 1200 ~~8-27-97 9:00~~ Appointment Date/Time:

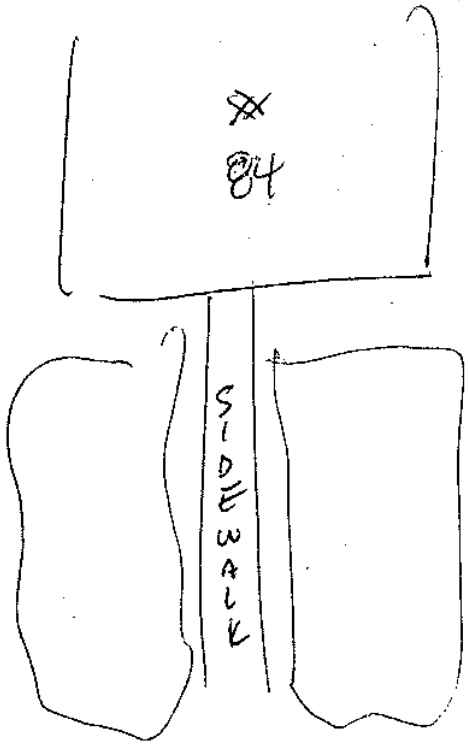
CRAFTSMAN'S SIGNATURE	HOURS	DATE	CRAFTSMAN'S SIGNATURE	HOURS	D
Roger Brown	1	8-27			
[illegible]	1.4	8-27			
[illegible]	4.5	8-29			
E. Higgins	4.5	8/29			

COMBINED TOTAL HOURS: ~~10.5~~ 10.4 MATERIAL USED (Attached/List On Reverse): Truck Stk Bench Stk Salvage Orde
Warehouse Shop Stk Excess/Salvage Emergency S

DESCRIPTION OF WORK (REF: C. 5. 1. 3. 6. 3.) Used backhoe and Dump truck Loaded ½ Load of topsoil and Dumped in front and on quarters 84. Raked out all clumps. Shoveled up & posed of @ landfill. Sowed grass seeds layed hay on top of it.

8-6-99
9:35 AM

HAND SHOVELED
&
RAKED



R+G

PCN AKJ-00

SHOP CODE: 02
FT MCCL

SERVICE ORDER

VED: 22-APR-98 15:30

RECEPTIONIST: LTJ

**** DOCUMENT NUMBER ****				RPR INSTL	FACILITY	EQUIPMENT	FAM HSG	PARTITION
CUST ID	SER NO	FY	TYPE	ABER	NUMBER	ID	QTRS NO	NO
FE	10682	3	R	FT MCCL				

WORK POC NAME	WORK POC PHONE	WORK LOCATION
VICKIE	3609	

WORK DESCRIPTION

RPR LAWM DAMAGED BY WATER LEAK IN 900 AREA

RECEIVED APR 22 1998 BLR 6/3/98

REMARK:

WORKCLASS CODE: K
COMPONENT CODE:
TECH DAT ACT CD: K310CC
APC: K6PB
CONTRACT NUMBER:
HOUSNG CLASS CD:

SC PRIORITY: 3
REIMB CUST ID:
SPEC INT CODE:
PROG IND CODE:
TASK CODE: 0261
TASK DESC: IMPROVE GROUNDS
TASK UNIT: 1

Access Attempted (Time & Dates):

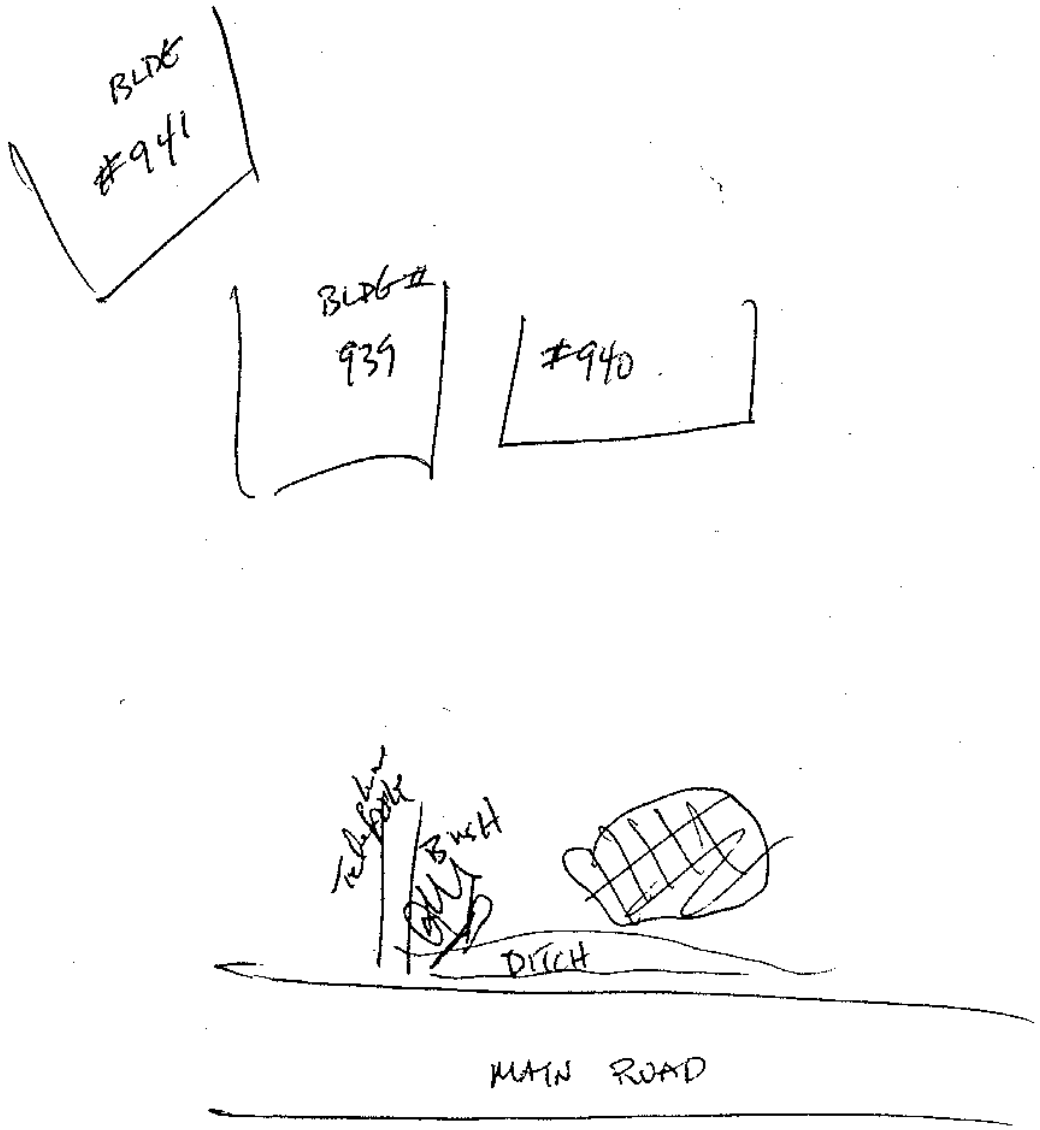
Appointment's Attempted:

Date/Time Start: 4-22-98 1030 DateTime Completed: ~~4-22-98~~ 5/19/98 1400 Appointment Date/Time:

CRAFTSMAN'S SIGNATURE	HOURS	DATE	CRAFTSMAN'S SIGNATURE	HOURS	D
Gurley	3.5	4-22	C. Higgins	2.5	5-
C. Ronn	2	4-22-98	V. Moore	2.0	5-1
K. Gurley	1.0	4/27	J. Lathem	1.0	5.

COMBINED TOTAL HOURS: ~~12.5~~ 12 MATERIAL USED (Attached/List On Reverse): Truck Stk Bench Stk Salvage Ordere Warehouse Shop Stk Excess/Salvage Emergency St

DESCRIPTION OF WORK (REF: C. 5. 1. 3. 6. 3.) Hauled 2 loads of top soil and spread over area. Still extremely soft. Needs to dry out. Delivered and spread load of dirt 4/27. 5/19 Took seed and straw over to 900 area and spreaded over area. Put down seed + straw



8-11-99
9:18 Am
plumber replaced valve
Backfill was about 6" Deep
Area still wet

R&G

PCN AKJ-001

SHOP CODE: 02
FT MCCL

SERVICE ORDER

VED: 23-FEB-99 14:56

RECEPTIONIST: LTJ

**** DOCUMENT NUMBER ****				RPF INSTL	FACILITY	EQUIPMENT	FAM HSG	PARTITION
CUST ID	SER NO	FY	TYPE	ABBR	NUMBER	ID	QTRS NO	NO
FE	06565	9	R	FT MCCL	01876			

WORK POC NAME	WORK POC PHONE	STREET ADDRESS
VICKIE	3069	

WORK DESCRIPTION

RPR GROUND AREA.

REMARK:

WORKCLASS CODE: K
COMPONENT CODE:
TECH DAT ACT CD: 73.V1
AFC: K&PE
CONTRACT NUMBER:
HOUSNG CLASS CD:

SO PRIORITY: 3
REIMB CUST ID:
SPEC INT CODE:
PROG IND CODE:
TASK CODE: 0261
TASK DESC: IMPROVE GROUNDS
TASK UNIT: 1

RECEIVED FEB 23 1999 VA

Access Attempted (Time & Dates): _____

Appointment's Attempted: _____

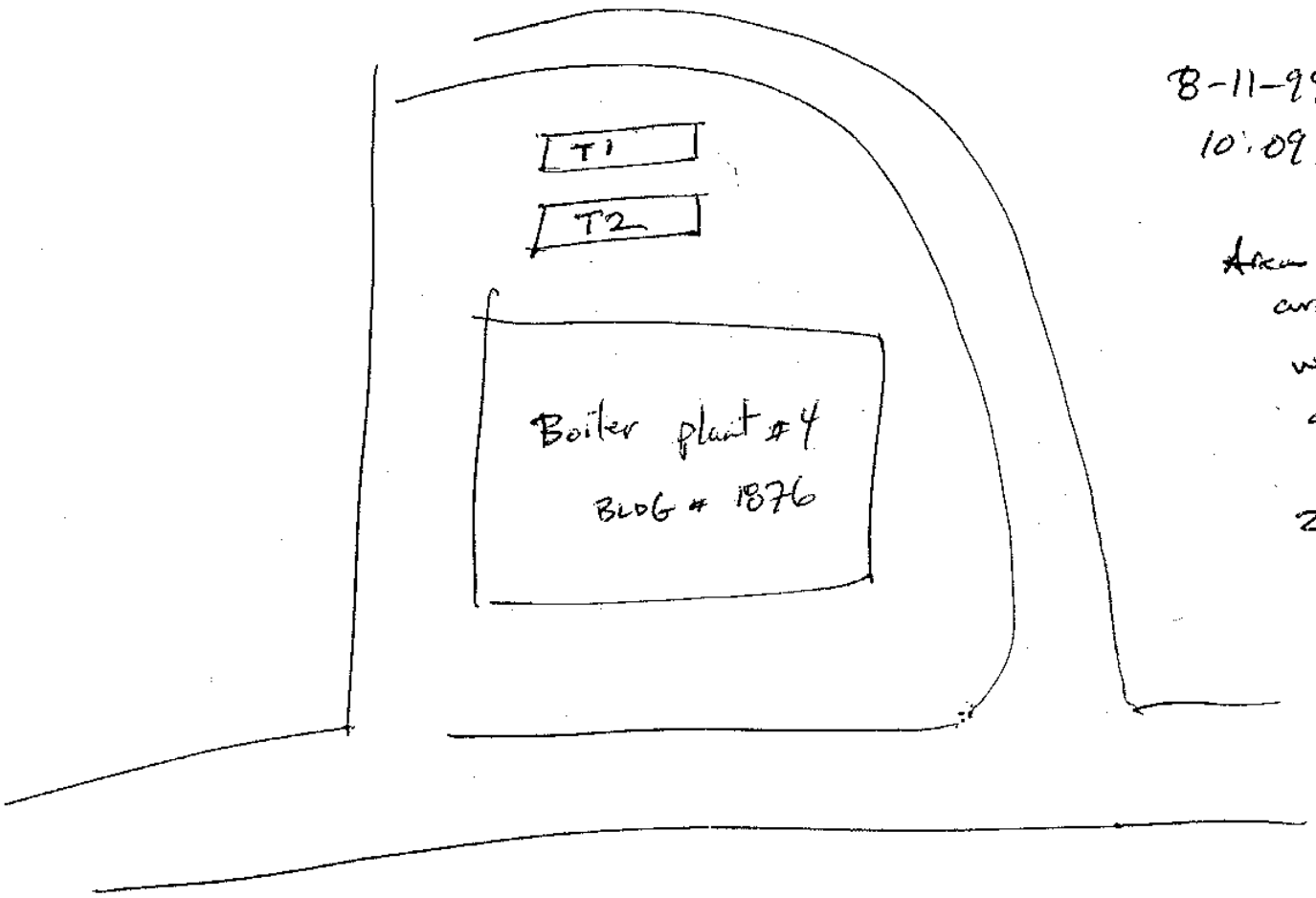
Date/Time Start: 23 Feb 99 0845 DateTime Completed: 23 Feb 99 1030 Appointment Date/Time: _____

CRAFTSMAN'S SIGNATURE	HOURS	DATE	CRAFTSMAN'S SIGNATURE	HOURS	D
K. Segrest	2	2-23			
Chapman D.	1.7	23 Feb 99			
~~Segrest K~~	~~1.7~~	~~23 Feb 99~~			

COMBINED TOTAL HOURS: ~~3.4~~ 3.7 KS MATERIAL USED (Attached/List On Reverse): Truck Stk Bench Stk Salvage Order Warehouse Shop Stk Excess/Salvage Emergency S

DESCRIPTION OF WORK (REF: C. 5. 1. 3. 6. 3.) Filled Holes w/ Top Soil + Seeded + Use loader & dump truck.

Customer Signature: Vickie Williams



8-11-99
10:09 Am

Area in and around pits were filled and packed seeded
2-3 Loads of soil.

SHOP CODE: 02
FT MCCL

SERVICE ORDER R+G

PCN AKJ-00

VED: 20-JAN-99 15:22

RECEPTIONIST: WGH

**** DOCUMENT NUMBER ****				RPF INSTL	FACILITY	EQUIPMENT	FAM HSG	PARTITIO
CUST ID	SER NO	FY	TYPE	ABBR	NUMBER	ID	QTRS NO	NO
BR	0525C	9	R	FT MCCL	02238			

WORK POC NAME	WORK POC PHONE	STREET ADDRESS
VICKIE	3609	

WORK DESCRIPTION

REFILL WITH FRESH DIRT, SEED AND STRAW AROUND AREAR WHERE QTRS WER DEMOLISHED PER MR. ABERNATHY

REMARK: PER VICKE MR. ABERNATHY WANTS WORK CHARGED TO BRAC APC

WORKCLASS CODE: K
COMPONENT CODE: 09
TECH DAT ACT CD:
AFC: K&KB
CONTRACT NUMBER:
HOUSNG CLASS CD:

SO PRIORITY: 3
REIMB CUST ID:
SPEC INT CODE: BRAC
PROG IND CODE:
TASK CODE: 0261
TASK DESC: IMPROVE GROUN
TASK UNIT: 1

RECEIVED JAN 20 1999 BL

Access Attempted (Time & Dates):

Appointment's Attempted:

Date/Time Start: 1-21-99 0730 DateTime Completed: 3/22/99 11:00 Appointment Date/Time:

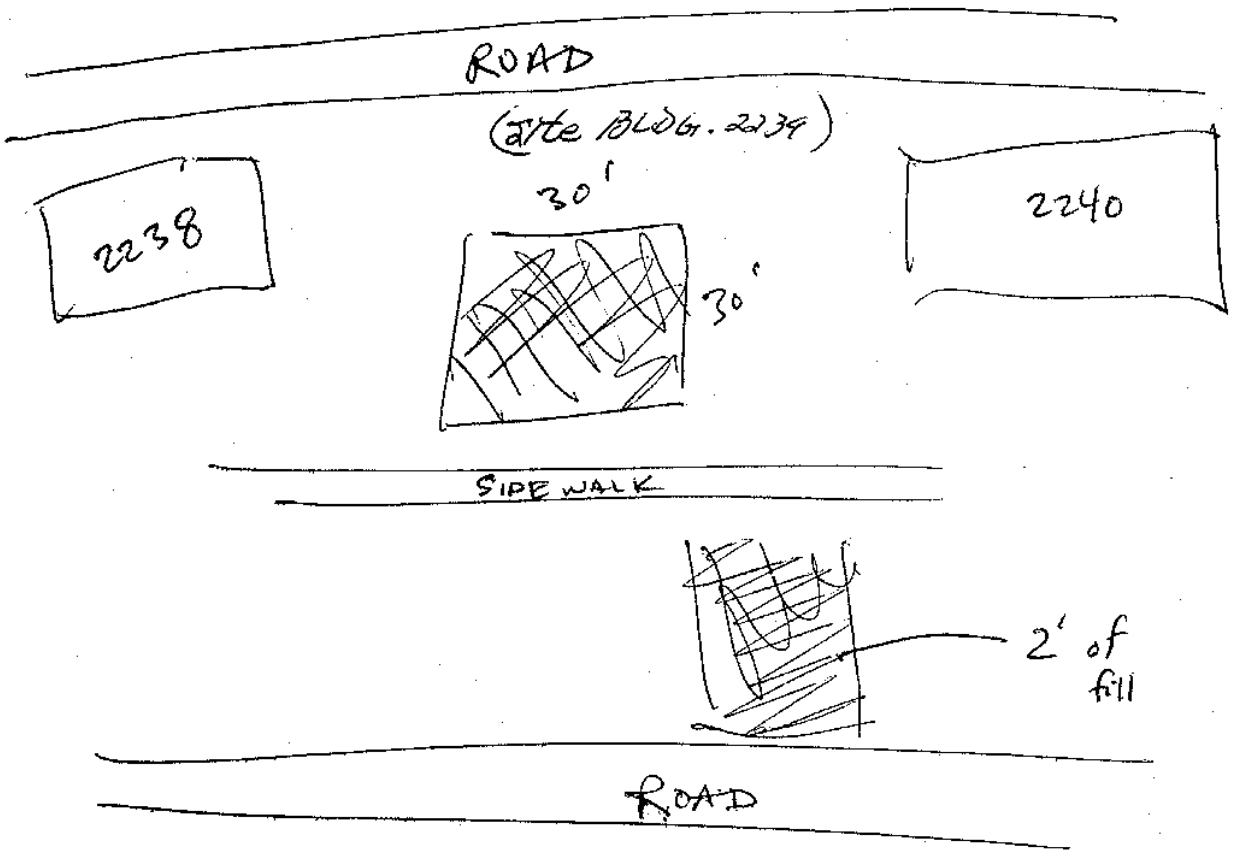
CRAFTSMAN'S SIGNATURE	HOURS	DATE	CRAFTSMAN'S SIGNATURE	HOURS	D
Chapman D.	8.0	1-21-99			
R. Sognost	8	1-21			
Gurley	4.5	1-21-99			
Wiggins	.2				

COMBINED TOTAL HOURS: ~~20.69~~ 20.7 MATERIAL USED (Attached/List On Reverse): Truck Stk Bench Stk Salvage Order Warehouse Shop Stk Excess/Salvage Emergency S

DESCRIPTION OF WORK (REF: C. 5. 1. 3. 6. 3.) loaded 16 loads of dirt and spread. 2/9 To wet to finish job 3/11 To wet 3/22 To wet. Will close S.O. unable to compl it is prime area to wet - Will complete ~~this~~ @ a later time.

8-11-99
9:36 AM

QTRS was demolished and hauled away



1½ feet in depth

machine work

NO surface sighting of UXO.

MUST CHECK SUBSURFACE

R + G PCN AKJ-008

SHOP CODE: 02 SERVICE ORDER
FT MCCL

ED: 12-MAR-98 10:21 RECEPTIONIST: LTJ

**** DOCUMENT NUMBER ****				RPF INSTL	FACILITY	EQUIPMENT	FAM HSG	PARTITION
CUST ID	SER NO	FY	TYPE	ABBR	NUMBER	ID	QTRS NO	NO
FH	08577	8	P	FT MCCL	03311		5	

WORK POC NAME	WORK POC PHONE	WORK LOCATION
CHEATHAM	3042	3311B AVERY DRIVE

WORK DESCRIPTION
DELIVER TOP SOIL. IAW IJO FH 800248J

RECEIVED MAR 12 1998 EP

REMARK:

WORKCLASS CODE: K
COMPONENT CODE: 09
TECH DAT ACT CD: K31000
APC: K6PE
CONTRACT NUMBER:
HOUSNG CLASS CD:

SC PRIORITY: 3
REIMB CUST ID: FH
SPEC INT CODE:
PROG IND CODE:
TASK CODE: 0261
TASK DESC: IMPROVE GROUNDS
TASK UNIT: 1

3154

820-4020 Kruis

Access Attempted (Time & Dates): _____

Appointment's Attempted: _____

Date/Time Start: 3-13-98 930 DateTime Completed: 3-13-98 1100 Appointment Date/Time: _____

CRAFTSMAN'S SIGNATURE	HOURS	DATE	CRAFTSMAN'S SIGNATURE	HOURS	D
Roger Brown	1.5	3-13			
Kenny Gurley	1.5	3-13			

COMBINED TOTAL HOURS: 3 MATERIAL USED (Attached/List On Reverse): Truck Stk Bench Stk Salvage Ordere Warehouse Shop Stk Excess/Salvage Emergency St

DESCRIPTION OF WORK (REF: C. 5. 1. 3. 6. 3.) Delivered 1 load of top soil to 3311 B. Vickie said to dump in back yard. Got as close as possible without ting stuck.

8-4-99
11:05 AM

Rear of QTRS

occupants spread topsoil left in pile
from truck

NO SIGNS OF W.U.

SHOP CODE: 02
FT MCCL

SERVICE ORDER

QC SAMPLE

IVED: 08-MAY-97 14:26

RECEPTIONIST: WGH

**** DOCUMENT NUMBER ****				RPF INSTL	FACILITY	EQUIPMENT	FAM HSG	PARTITIO
CUST ID	SER NO	FY	TYPE	ABBR	NUMBER	ID	QTRS NO	NO
FH	12321	7	R	FT MCCL	03509		A	

WORK POC NAME	WORK POC PHONE	WORK LOCATION
MSG LEVY	3215	3509A MORTON ROAD

WORK DESCRIPTION

DELIVER 5 TONS OT TOP SOIL

REMARK:

RECEIVED MAY 8 1997

WORKCLASS CODE: K
COMPONENT CODE: 09
TECH DAT ACT CD:
APC: K6PE
CONTRACT NUMBER:
HOUSNG CLASS CD:

SO PRIORITY: 2
REIMB CUST ID: FH
SPEC INT CODE:
PROG IND CODE:
TASK CODE: 0261
TASK DESC: IMPROVE GROUNDS
TASK UNIT: 1

Access Attempted (Time & Dates):

Appointment's Attempted:

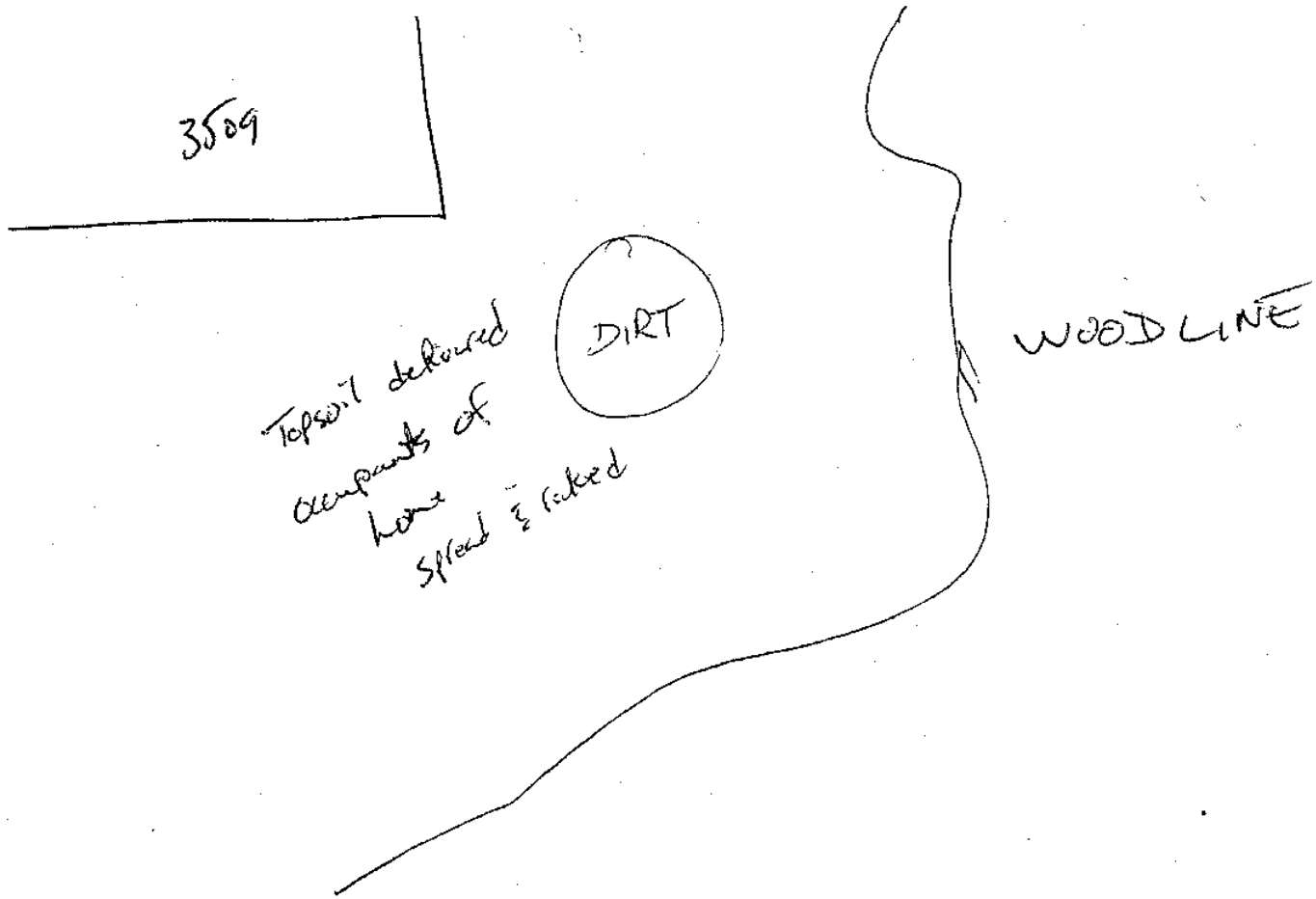
Date/Time Start: 9:00 5-9 Date Time Completed: 11:00 5-9 Appointment Date/Time:

CRAFTSMAN'S SIGNATURE	HOURS	DATE	CRAFTSMAN'S SIGNATURE	HOURS
B. Wright	2	5-9		

COMBINED TOTAL HOURS: 2 MATERIAL USED (Attached/List On Reverse): Truck Stk Bench Stk Salvage Orde
Warehouse Shop Stk Excess/Salvage Emergency S

DESCRIPTION OF WORK (REF: C. 5. 1. 3. 6. 3.) loaded truck and carried 5 tons to 3509A. tried to get in touch with occupant bu wldn't so the sister told me where to dump it

8-4-99
9:45 AM


3509
DIRT
Topsoil deposited
occupants of
home
spread & raked
WOODLINE

SHOP CODE: 02 SERVICE ORDER PCN AKJ-008
T MCCL

F ED: 23-DEC-97 12:47 RECEPTIONIST: MAS

*** DOCUMENT NUMBER ****				RPF INSTL	FACILITY	EQUIPMENT	FAM HSG	PARTITION
CUST ID	SER NO	FY	TYPE	ABBR	NUMBER	ID	QTRS NO	NO
FH	04556	8	R	FT MCCL	03512		C	

WORK POC NAME	WORK POC PHONE	WORK LOCATION
PEGGY	3484	3512C MORTON ROAD

WORK DESCRIPTION
SINK HOLE IN FRONT YARD (SAFETY HAZARD -- LARGE ENOUGH FOR CHILD TO FALL IN)

EMARK:

RECEIVED DEC 24 1997 EW

WORKCLASS CODE: K
COMPONENT CODE: 09
TECH DAT ACT CD:
APC: K6PE
ONTRACT NUMBER:
OUSNG CLASS CD:

SO PRIORITY: 2
REIMB CUST ID: FH
SPEC INT CODE:
PROG IND CODE:
TASK CODE: 0261
TASK DESC: IMPROVE GROUNDS
TASK UNIT: 1

Access Attempted (Time & Dates):

Appointment's Attempted:

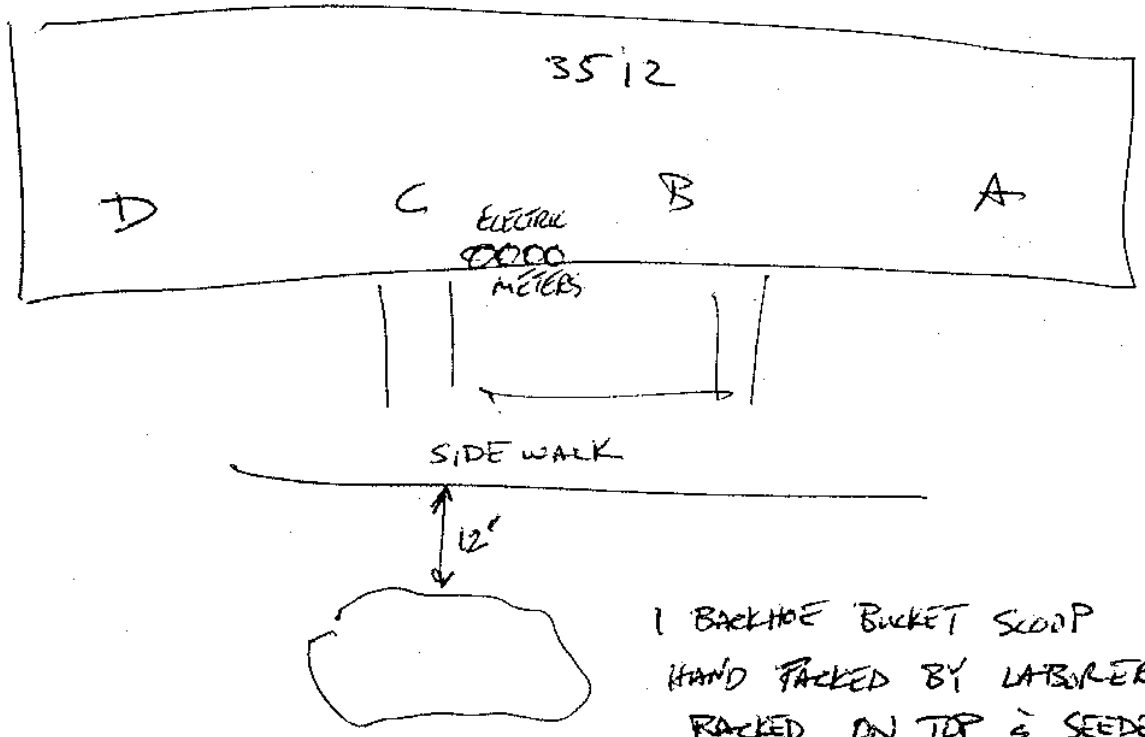
Date/Time Start: 0800 12-26-97 Date Time Completed: 12/26/97 0830 Appointment Date/Time:

CRAFTSMAN'S SIGNATURE	HOURS	DATE	CRAFTSMAN'S SIGNATURE	HOURS	D
Janet E Lattom	.5	12-26-97			
C. Higgins	.5	12-26-97			

COMBINED TOTAL HOURS: 1.0 MATERIAL USED (Attached/List On Reverse): Truck Stk Bench Stk Salvage Order
Warehouse Shop Stk Excess/Salvage Emergency S

DESCRIPTION OF WORK (REF: C. 5. 1. 3. 6. 3.)
Filled hole with dirt and packed

8-4-99
9:20 AM



1 BACKHOE BUCKET SCOOP
HAND PACKED BY LABORERS (COMPACTED)
RACKED ON TOP & SEEDED

SHOP CODE: 02 SERVICE ORDER PCN AKJ
FT MCCL

RECEIVED: 02-May-97 13:59 RECEPTIONIST: WGH

*** DOCUMENT NUMBER ****				RPF INSTL	FACILITY	EQUIPMENT	FAM HSG	PARTI
JST ID	SER NO	FY	TYPE	ABBR	NUMBER	ID	QTRS NO	NO
FH	R0233	7	R	FT MCCL				

WORK POC NAME	WORK POC PHONE	WORK LOCATION
MAJ DAVIS	8206870 - 3511 4468	3406A

WORK DESCRIPTION

NEED 5 TONS OF TOPSOIL

REMARK:

RECEIVED MAY 2 1997

WORKCLASS CODE: M
COMPONENT CODE:
TECH DATA ACT CD: K31000
APC: K6PE
CONTRACT NUMBER:
HOUSING CLASS CD: 06

SO PRIORITY: 2
REIMB CUST ID: FH
SPEC INT CODE:
PROG IND CODE:
TASK CODE: 0261
TASK DESC: IMPROVE GROUNDS
TASK UNIT: 1

Access Attempted (Time & Dates):

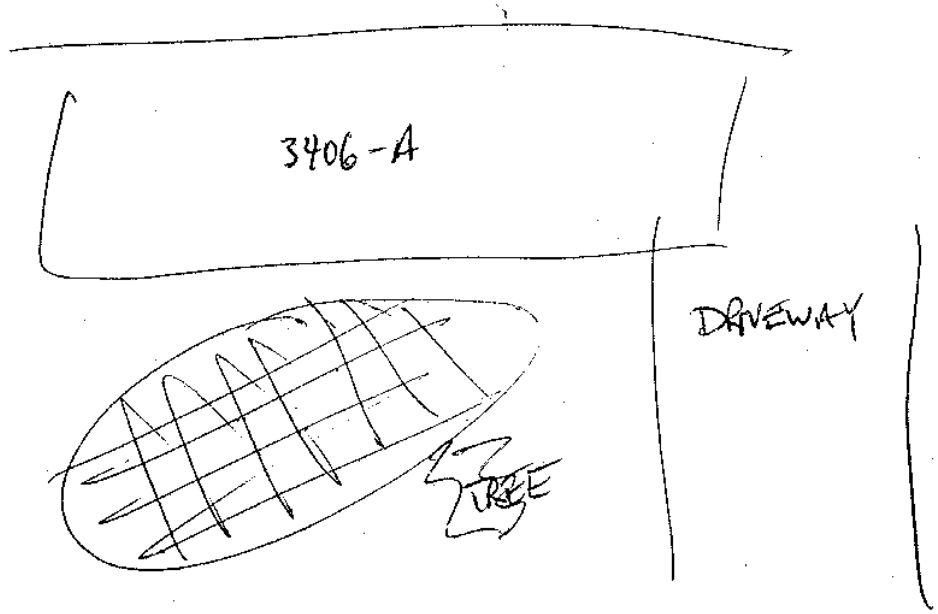
Appointment's Attempted:

Date/Time Start: 5/7/97 0730 DateTime Completed: 5/7/97 ~~1430~~ 1530 Appointment Date/Time:

CRAFTSMAN'S SIGNATURE	HOURS	DATE	CRAFTSMAN'S SIGNATURE	HOURS	D
Higgins	.5	5/7			
Gurley	.5	5/7			

COMBINED TOTAL HOURS: 1 MATERIAL USED (Attached/List On Reverse): Truck Stk Bench Stk Salvage Orde
Warehouse Shop Stk Excess/Salvage Emergency S

DESCRIPTION OF WORK (REF: C. 5. 1. 3. 6. 3.) Loaded top soil, took to quarters did not dump - Occupant was not home, Came back to shop had Vickie to Call P.O.C @ home no answer. Call P.O.C. delivered dirt to desired location.



8-4-99
10:35 AM

Occupants
Spread Fill dirt
AFTER DELIVERY
NO SIGNS OF WORD

0

PCN AKJ-0C

SHOP CODE: 02
FT MCCL

SERVICE ORDER

VED: 08-MAY-97 10:49

RECEPTIONIST: WGH

**** DOCUMENT NUMBER ****				RPF INSTL	FACILITY	EQUIPMENT	FAM HSG	PARTITIC
CUST ID	SER NO	FY	TYPE	ABBR	NUMBER	ID	QTRS NO	NO
FE	12289	7	R	FT MCCL	03742		A	

WORK POC NAME	WORK POC PHONE	WORK LOCATION
VICKIE	3609	3742B SUMMERALL

WORK DESCRIPTION

DELIVER 8 TONS TOPSOIL TO QTR 3742B

RECEIVED MAY 8 1997

REMARK:

WORKCLASS CODE: M
COMPONENT CODE:
TECH DAT ACT CD: K31000
APC: K6PE
CONTRACT NUMBER:
HOUSNG CLASS CD:

SO PRIORITY: 2
REIMB CUST ID:
SPEC INT CODE:
PROG IND CODE:
TASK CODE: 0261
TASK DESC: IMPROVE GROUNDS
TASK UNIT: 1

Access Attempted (Time & Dates):

Appointment's Attempted:

Date/Time Start: 8 May 97 1100 Date Time Completed: 8 May 97 1200 Appointment Date/Time:

CRAFTSMAN'S SIGNATURE	HOURS	DATE	CRAFTSMAN'S SIGNATURE	HOURS	D
Gurley	1	8 May			
B. Wright	1	8 May			

COMBINED TOTAL HOURS: 2.0 MATERIAL USED (Attached/List On Reverse): Truck Stk Bench Stk Salvage Orde Warehouse Shop Stk Excess/Salvage Emergency S

DESCRIPTION OF WORK (REF: C. 5. 1. 3. 6. 3.) hauled 1 8 ton load of topsoil to 3742B c dumed in 4 different spots

8-5-99
1:32pm

3742 B:

Topsoil hauled in by DEH.
Compost spread throughout yard
raked and reseeded.
No reports of UXO

SHOP CODE: 02 SERVICE ORDER R&G ~~SS~~ PCN AKJ-008

MCCL SS

R ED: 15-OCT-97 13:30 RECEPTIONIST: DM

** DOCUMENT NUMBER ****				RPF INSTL	FACILITY	EQUIPMENT	FAM HSG	PARTITION
CUST ID	SER NO	FY	TYPE	ABBR	NUMBER	ID	QTRS NO	NO
FH	00829	8	R	FT MCCL	03743		A	

WORK POC NAME	WORK POC PHONE	WORK LOCATION
C. KIMBREL	6992	3743 A SUMMERALL

WORK DESCRIPTION

HAUL FILL DIRT, LEVEL AND SEED AREA WHERE WATER LINE WAS REPAIRED

RECEIVED OCT 14 1997 EW

REMARK:

WORKCLASS CODE: K
COMPONENT CODE: 09
TECH DAT ACT CD:
APC: K6PE
CONTRACT NUMBER:
HOUSNG CLASS CD:

SO PRIORITY: 3
REIMB CUST ID: FH
SPEC INT CODE:
PROG IND CODE:
TASK CODE: 0261
TASK DESC: IMPROVE GROUNDS
TASK UNIT: 1

Access Attempted (Time & Dates):

Appointment's Attempted:

Date/Time Start: 10-23-97 1200 Date Time Completed: 10-23-97 16:5 Appointment Date/Time:

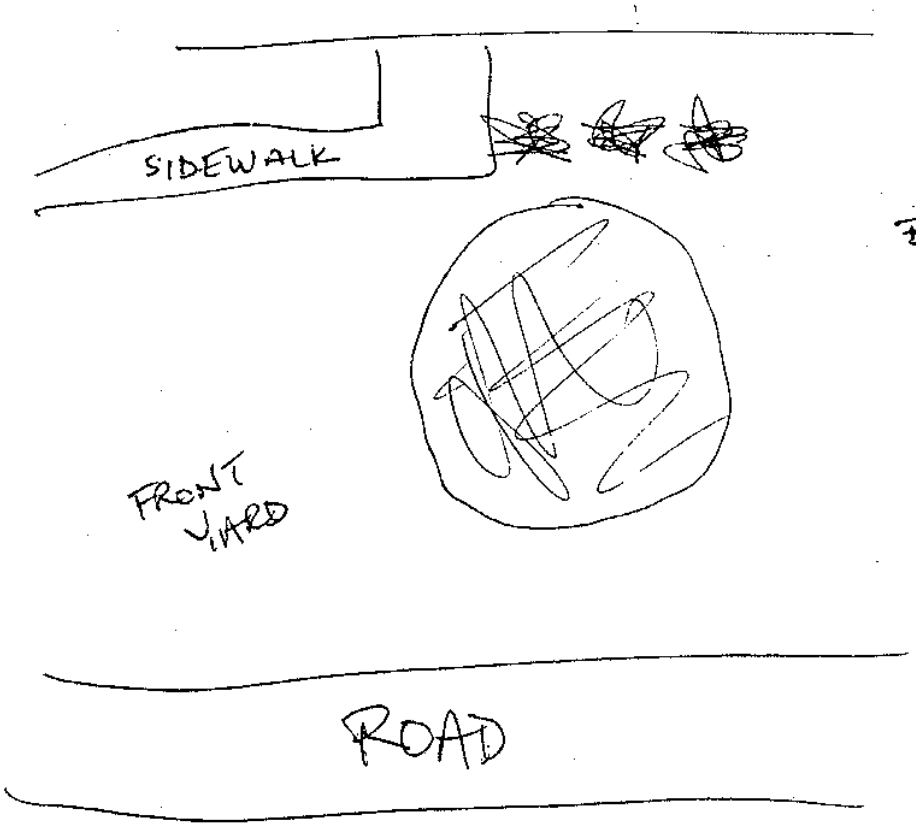
CRAFTSMAN'S SIGNATURE	HOURS	DATE	CRAFTSMAN'S SIGNATURE	HOURS	D
Roger Brown	3.5	10-23			
C. Evans	3.5	10-23			

COMBINED TOTAL HOURS: 7 MATERIAL USED (Attached/List On Reverse): Truck Stk Bench Stk Salvage Ordere Warehouse Shop Stk Excess/Salvage Emergency St

DESCRIPTION OF WORK (REF: C. 5. 1. 3. 6. 3.) Used backhoe and dump truck to haul one load of topsoil. Filled in hole and [illegible] down. Put down seed and hay.

8-5-99
1:45pm

3743A



BACKHOE / LOADER USED TO PLACE TOPSOIL
2½ ft deep

SHOP CODE: 02
FT MCCL

SERVICE ORDER

R+G

PCN AKJ-00

VED: 05-FEB-99 09:35

RECEPTIONIST: WGH

**** DOCUMENT NUMBER ****				REF INSTL	FACILITY	EQUIPMENT	FAM HSG	PARTITIO
CUST ID	SER NO	FY	TYPE	ABBR	NUMBER	ID	QTRS NO	NO
FE	06079	9	P	FT MCCL	03776		A	

WORK POC NAME	WORK POC PHONE	STREET ADDRESS
TALLEY	4125	3776A COOPER ROAD

WORK DESCRIPTION

REPAIR LAWN IN FRONT & REAR OF QTRS
ATTN: ROADS & GROUNDS

REMARK:

WORKCLASS CODE: K
COMPONENT CODE: DP
TECH DAT ACT CD:
APC: KcPE
CONTRACT NUMBER:
HOUSING CLASS CD:

SO PRIORITY: 3
REIMB CUST ID:
SPEC INT CODE:
PROG IND CODE:
TASK CODE: 0261
TASK DESC: IMPROVE GROUNDS
TASK UNIT: 1

OK
8 Feb 99

Access Attempted (Time & Dates):

Appointment's Attempted:

Date/Time Start: 2-5 7:30 DateTime Completed: 2-5 4:15 Appointment Date/Time:

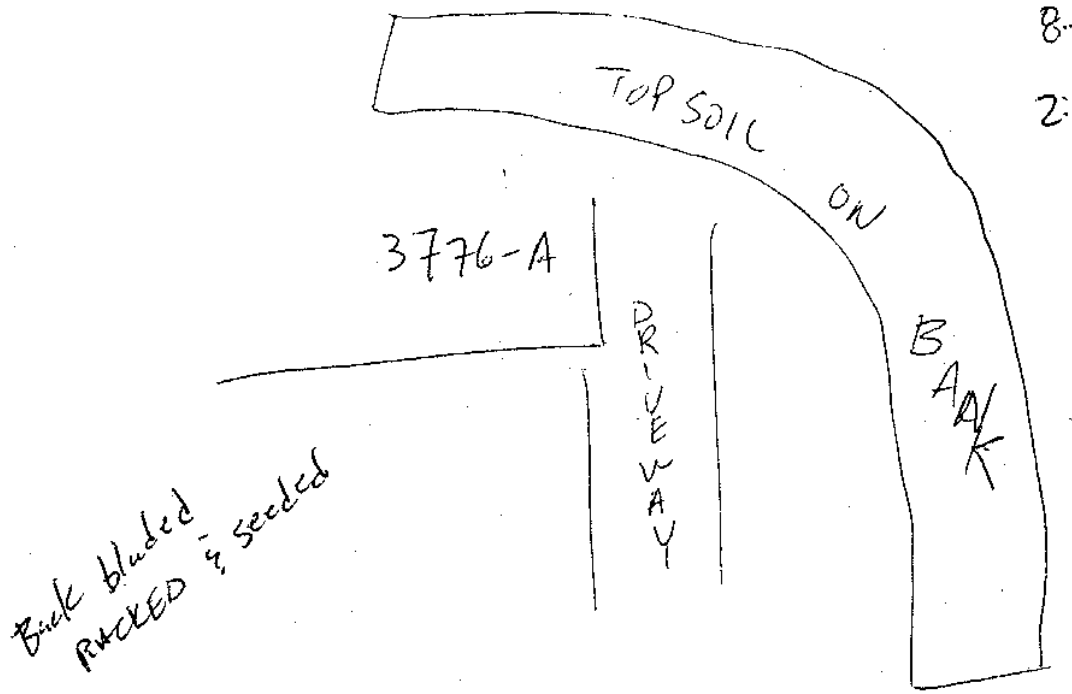
CRAFTSMAN'S SIGNATURE	HOURS	DATE	CRAFTSMAN'S SIGNATURE	HOURS	D
T. Bryant	8	2-5			
Kenny Curly	8	2-5			
Jenny Lathem	8	2-5			
D. Moore	8	2-5			

COMBINED TOTAL HOURS: 32 MATERIAL USED (Attached/List On Reverse): Truck Stk Bench Stk Salvage Order
Warehouse Shop Stk Excess/Salvage Emergency S

DESCRIPTION OF WORK (REF: C. 5. 1. 3. 6. 3.) Took eight loads of dirt and tractor over to quarters and leveled out area. Then seeded and put eight bails of hay over seed and dirt

8-5-99

2:05 pm



Appendix C

Site Investigation Figures

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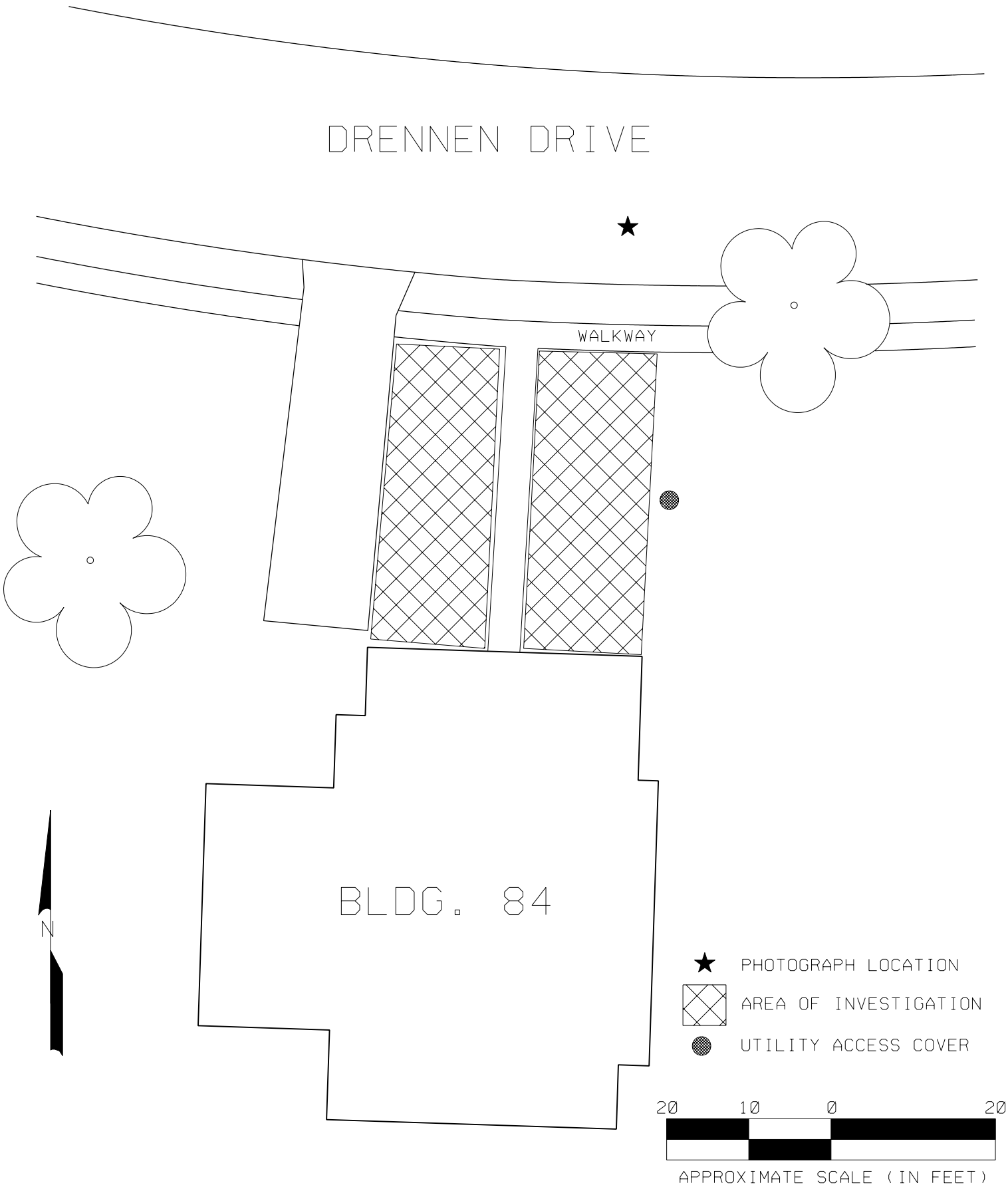
$DATE$



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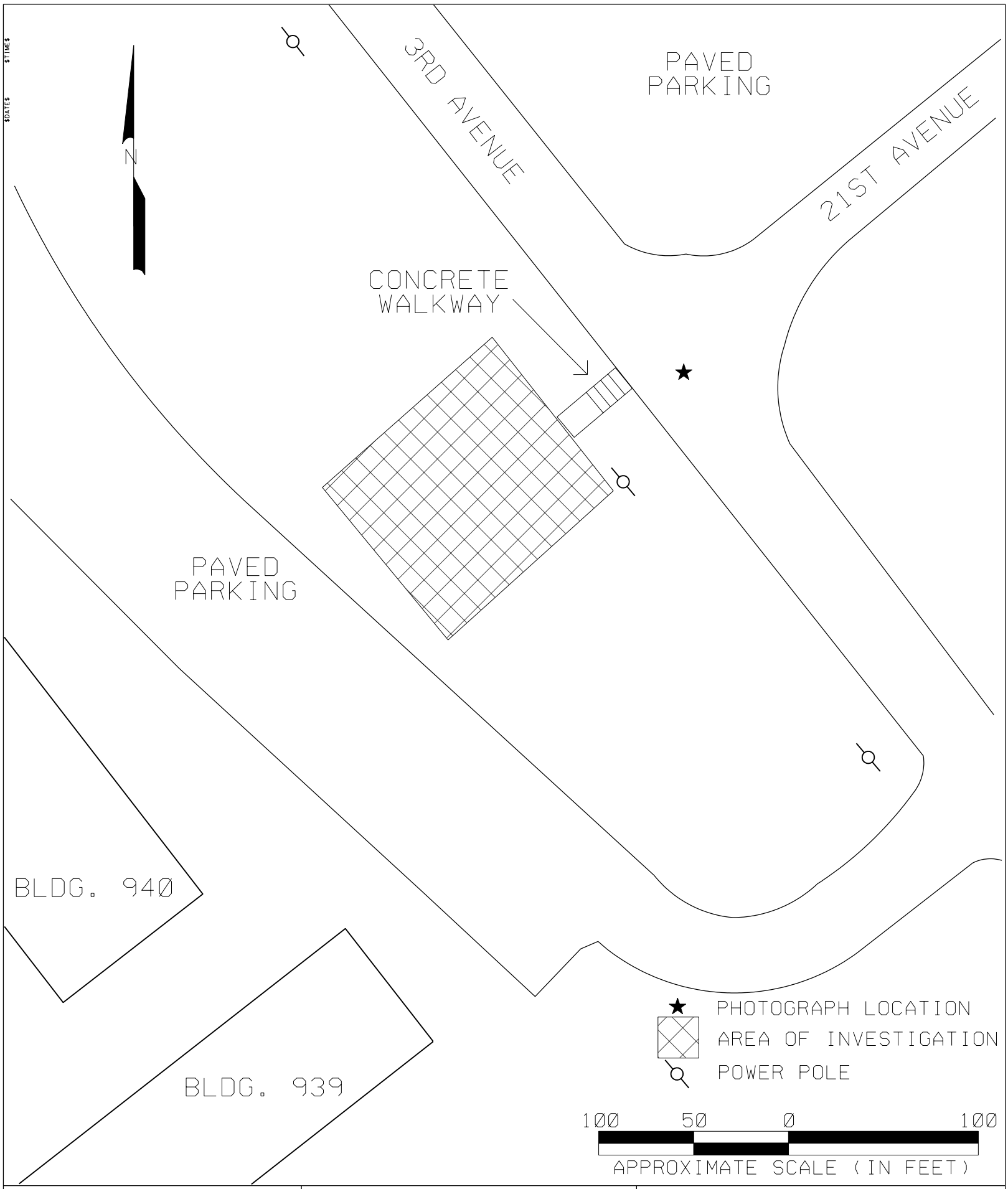
FAX: (704) 358-8342
WEB SITE: WWW.ZAPENG.COM

U.S. ARMY ENGINEERING & SUPPORT CENTER
HUNTSVILLE, ALABAMA

PROJECT TITLE: DEH SITE INVESTIGATION

PROJECT #:	TASK:	DATE:	DRAWN BY:	SCALE:	FIGURE:
ZE002500	Task 4	18 SEPT 2000	J.SHIFLET	AS SHOWN	1

$FILE$



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PROJECT #:	TASK:	DATE:	DRAWN BY:	SCALE:	FIGURE:
ZE002500	Task 4	18 SEPT 2000	J.SHIFLET	AS SHOWN	2

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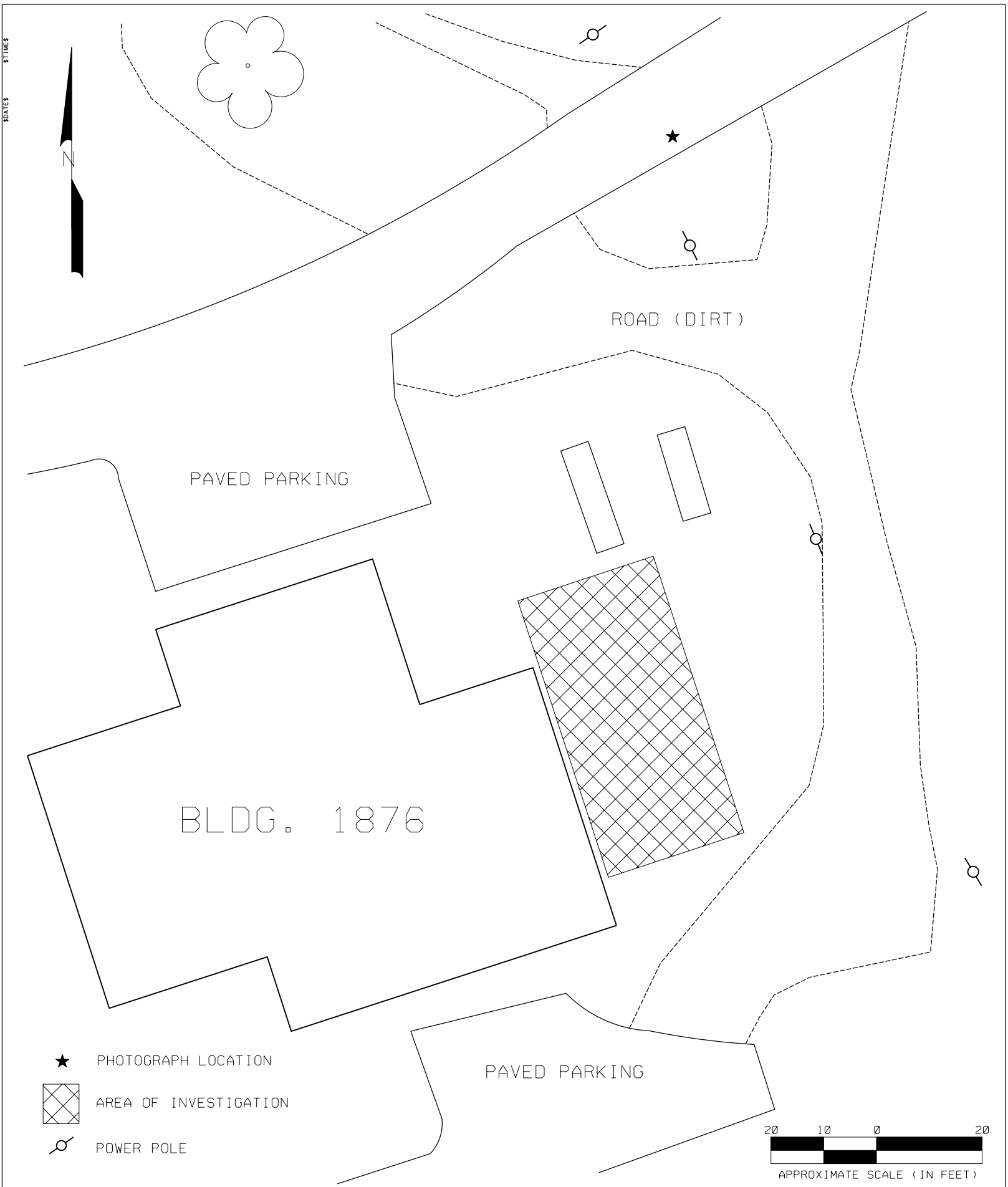
$TIME$

$DATE$



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PROJECT TITLE: DEH SITE INVESTIGATION

PROJECT #:	TASK:	DATE:	DRAWN BY:	SCALE:	FIGURE:
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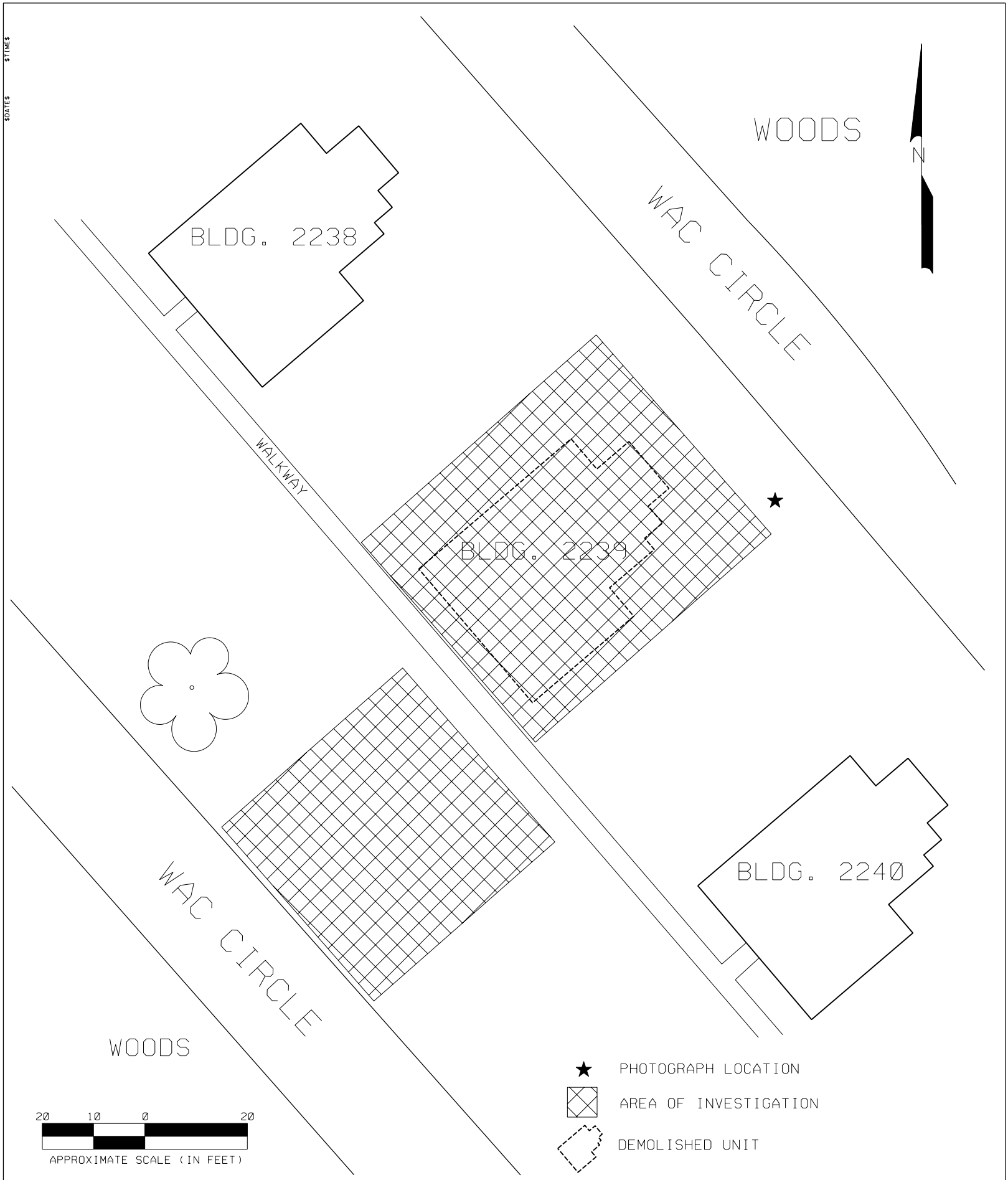

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PROJECT TITLE: DEH SITE INVESTIGATION

PROJECT #:	TASK:	DATE:	DRAWN BY:	SCALE:	FIGURE:
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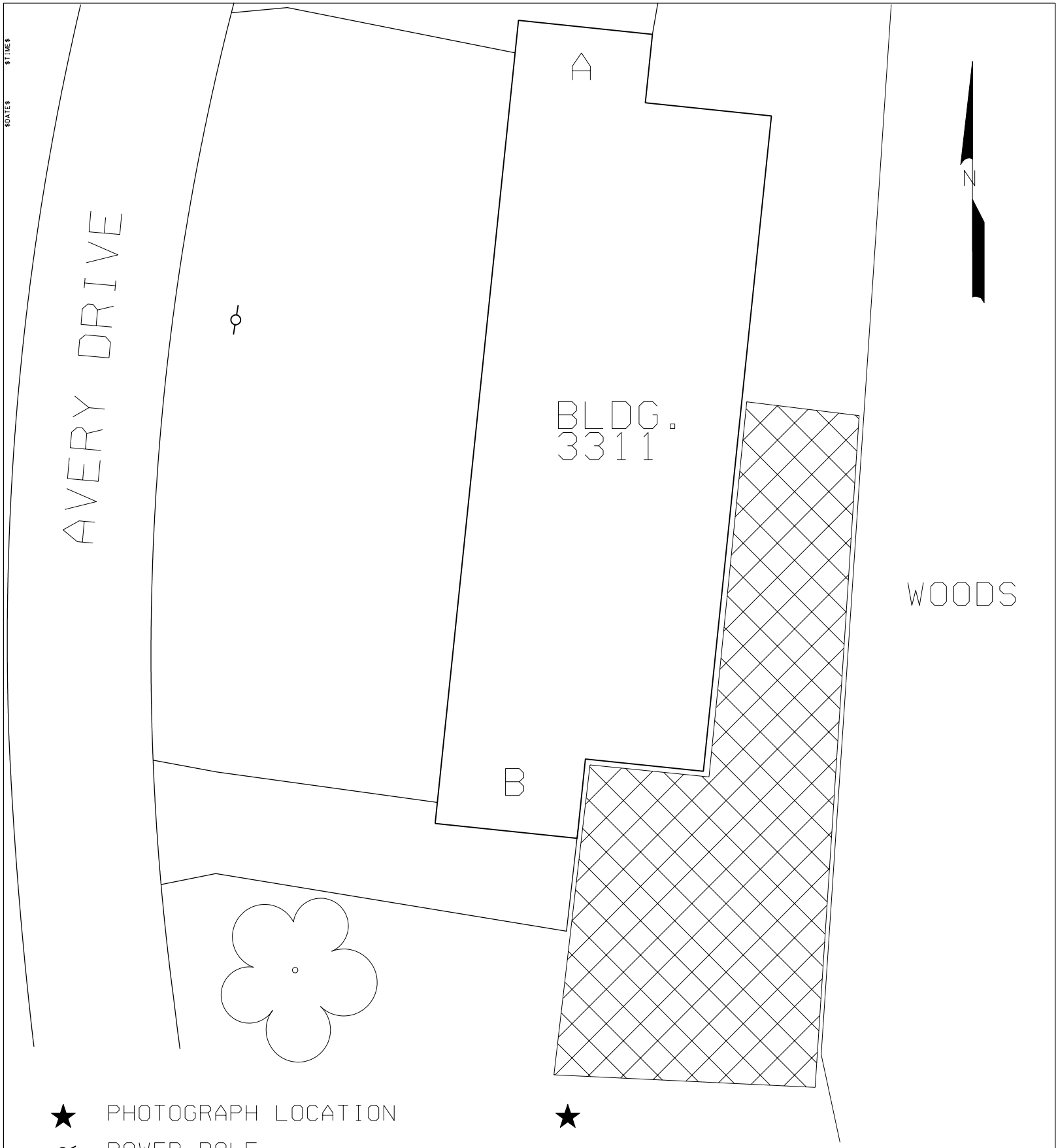

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PROJECT TITLE: DEH SITE INVESTIGATION

PROJECT #:	TASK:	DATE:	DRAWN BY:	SCALE:	FIGURE:
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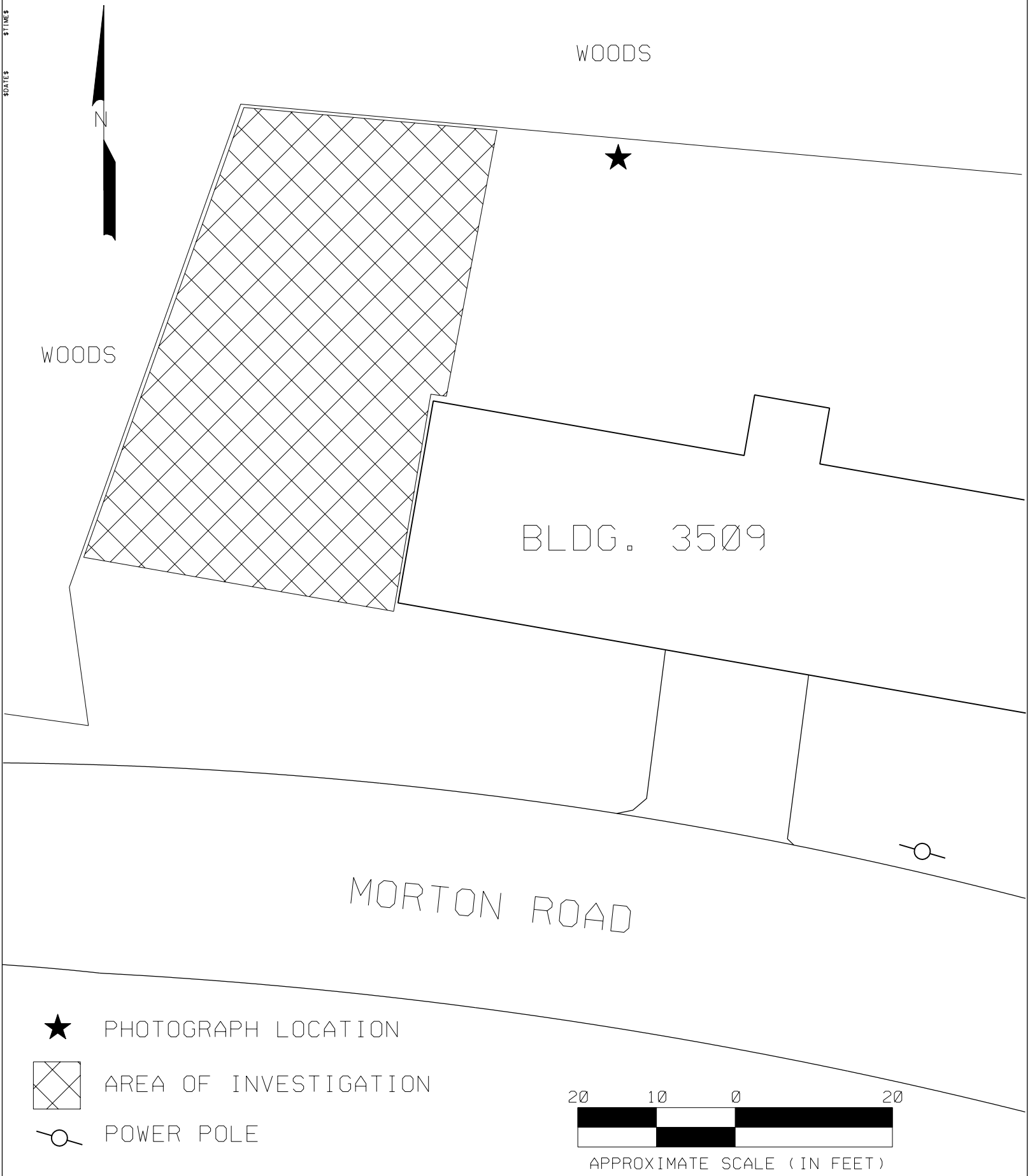

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PROJECT TITLE: DEH SITE INVESTIGATION

PROJECT #:	TASK:	DATE:	DRAWN BY:	SCALE:	FIGURE:
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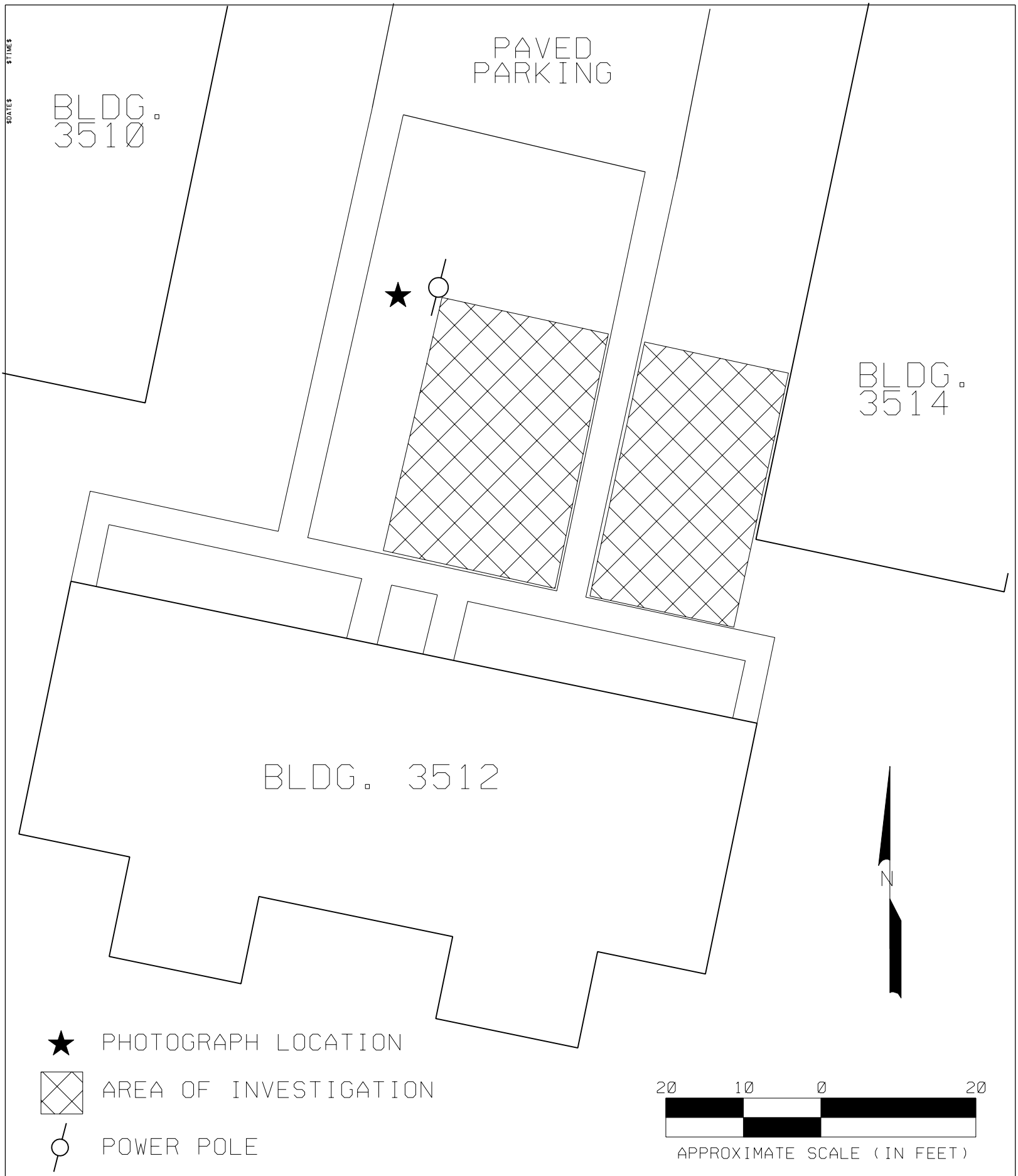

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PROJECT TITLE: DEH SITE INVESTIGATION

PROJECT #:	TASK:	DATE:	DRAWN BY:	SCALE:	FIGURE:
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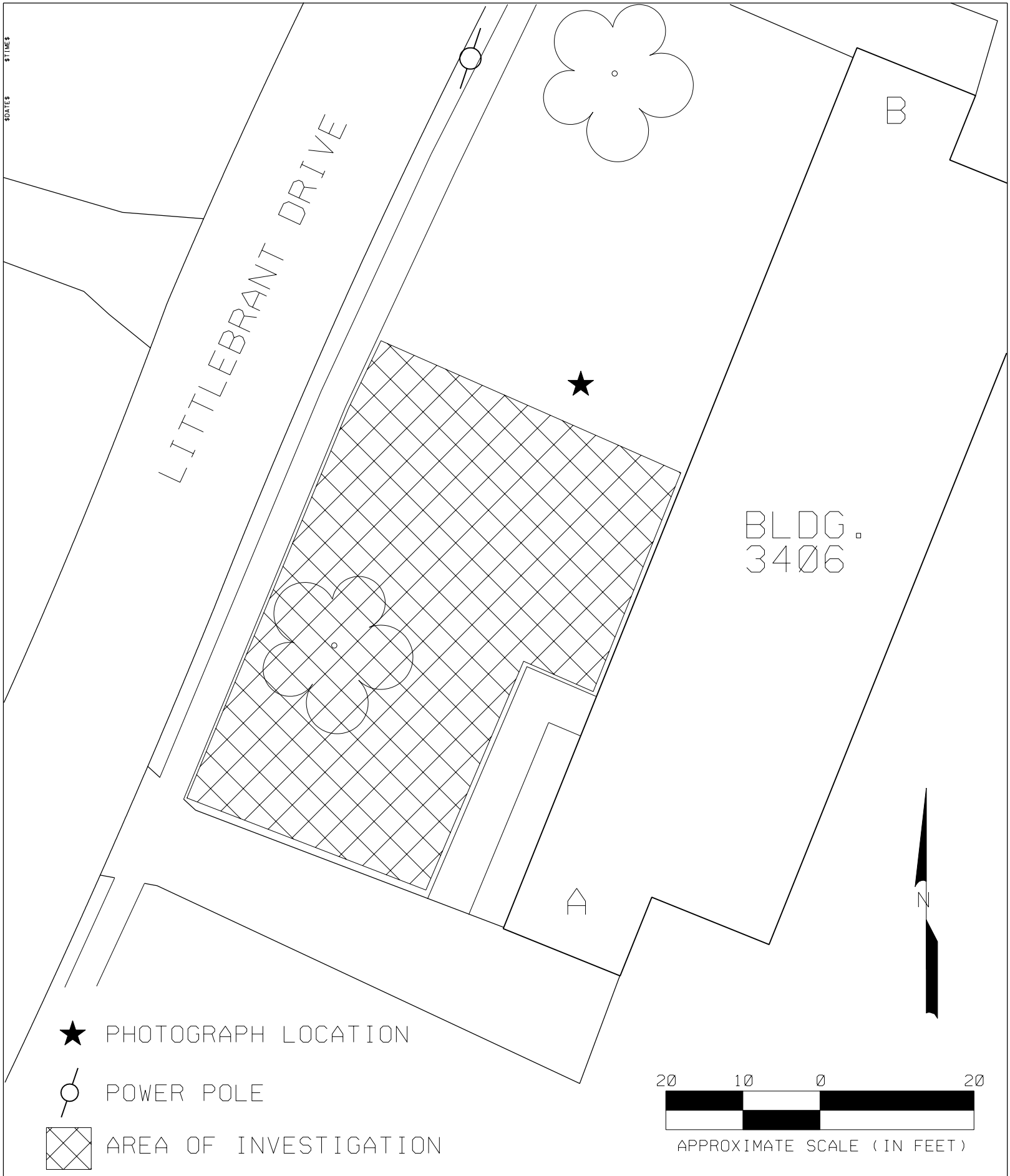

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PROJECT TITLE: DEH SITE INVESTIGATION

PROJECT #:	TASK:	DATE:	DRAWN BY:	SCALE:	FIGURE:
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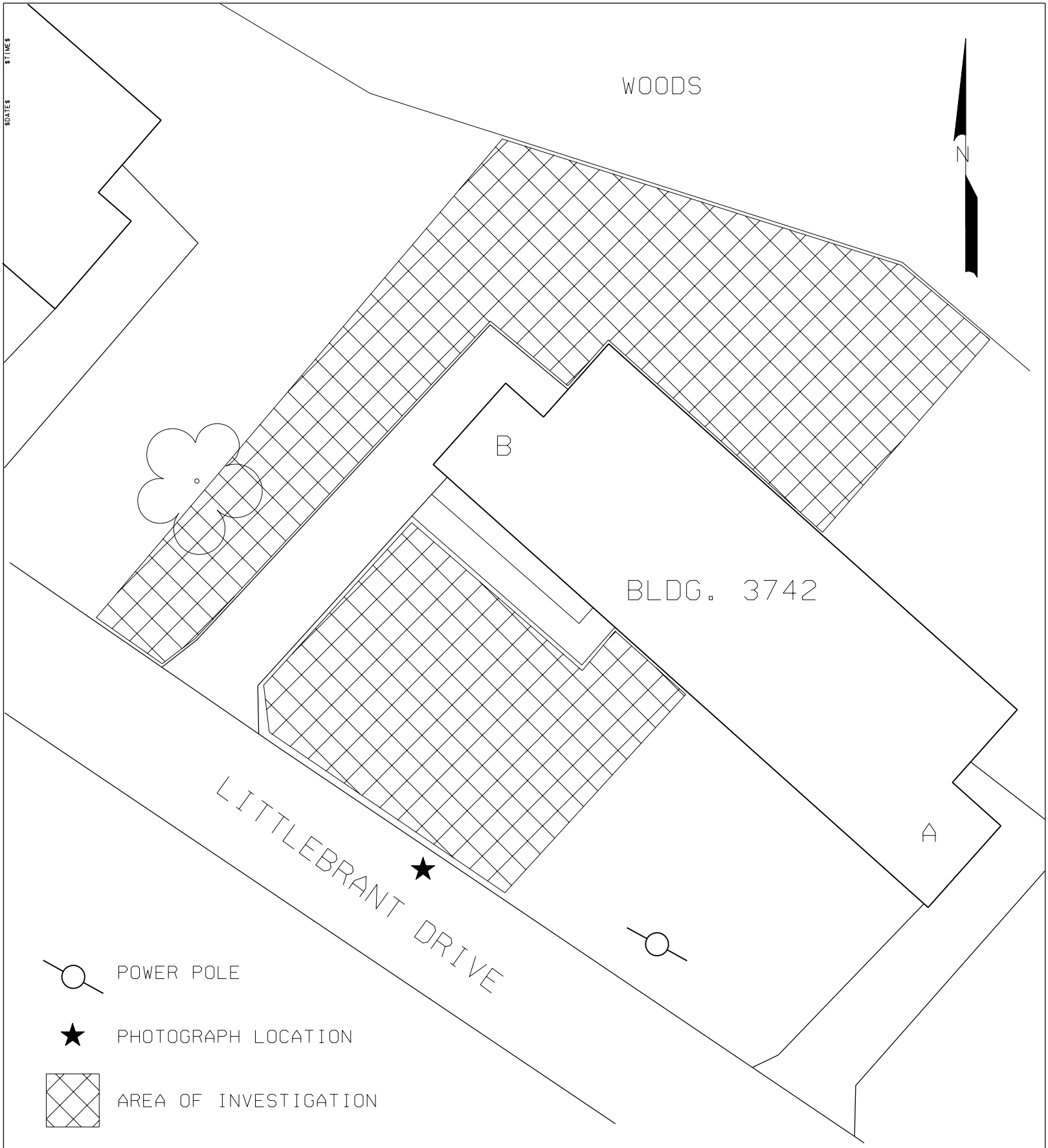

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PROJECT TITLE: DEH SITE INVESTIGATION

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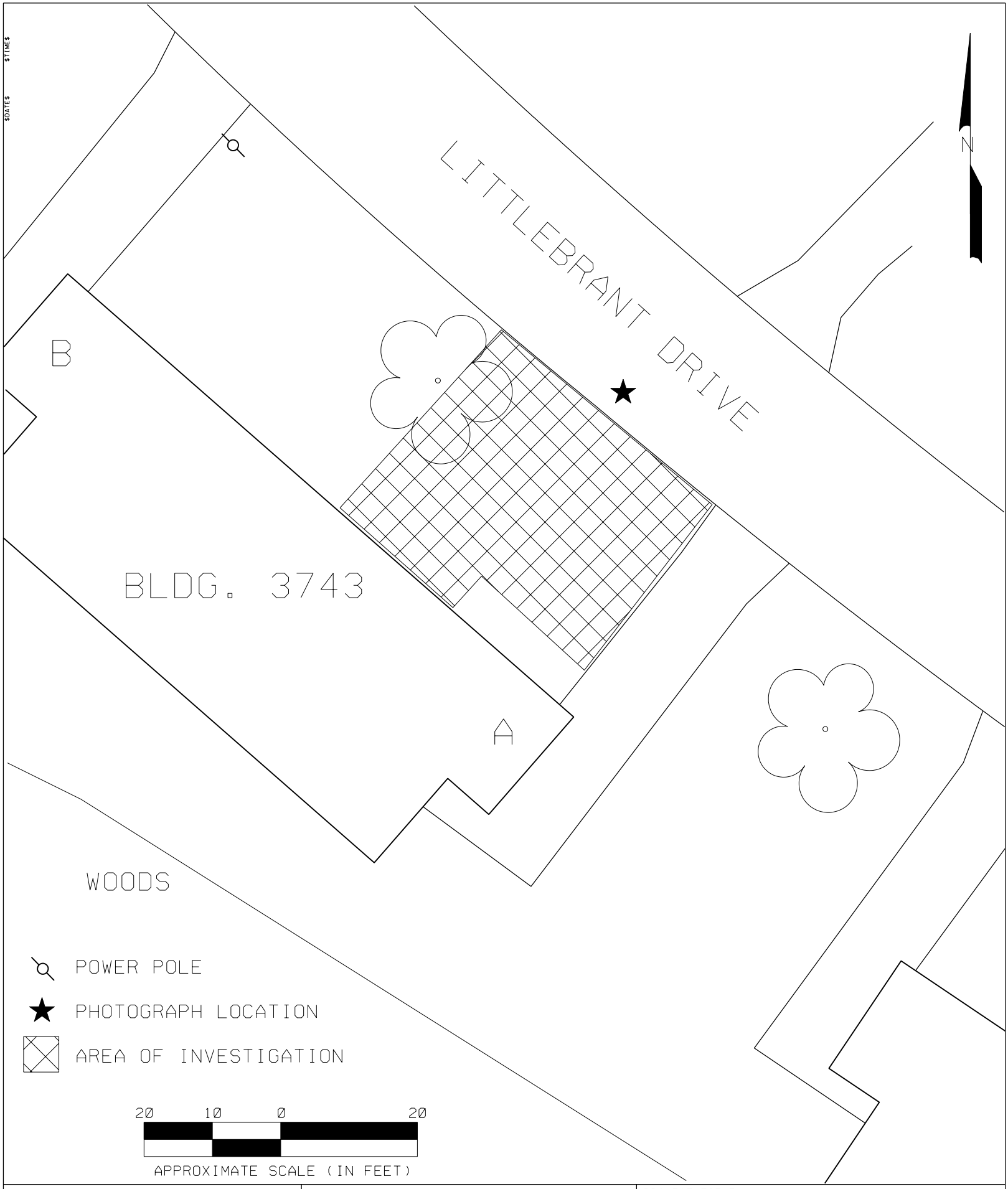

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PROJECT TITLE: DEH SITE INVESTIGATION

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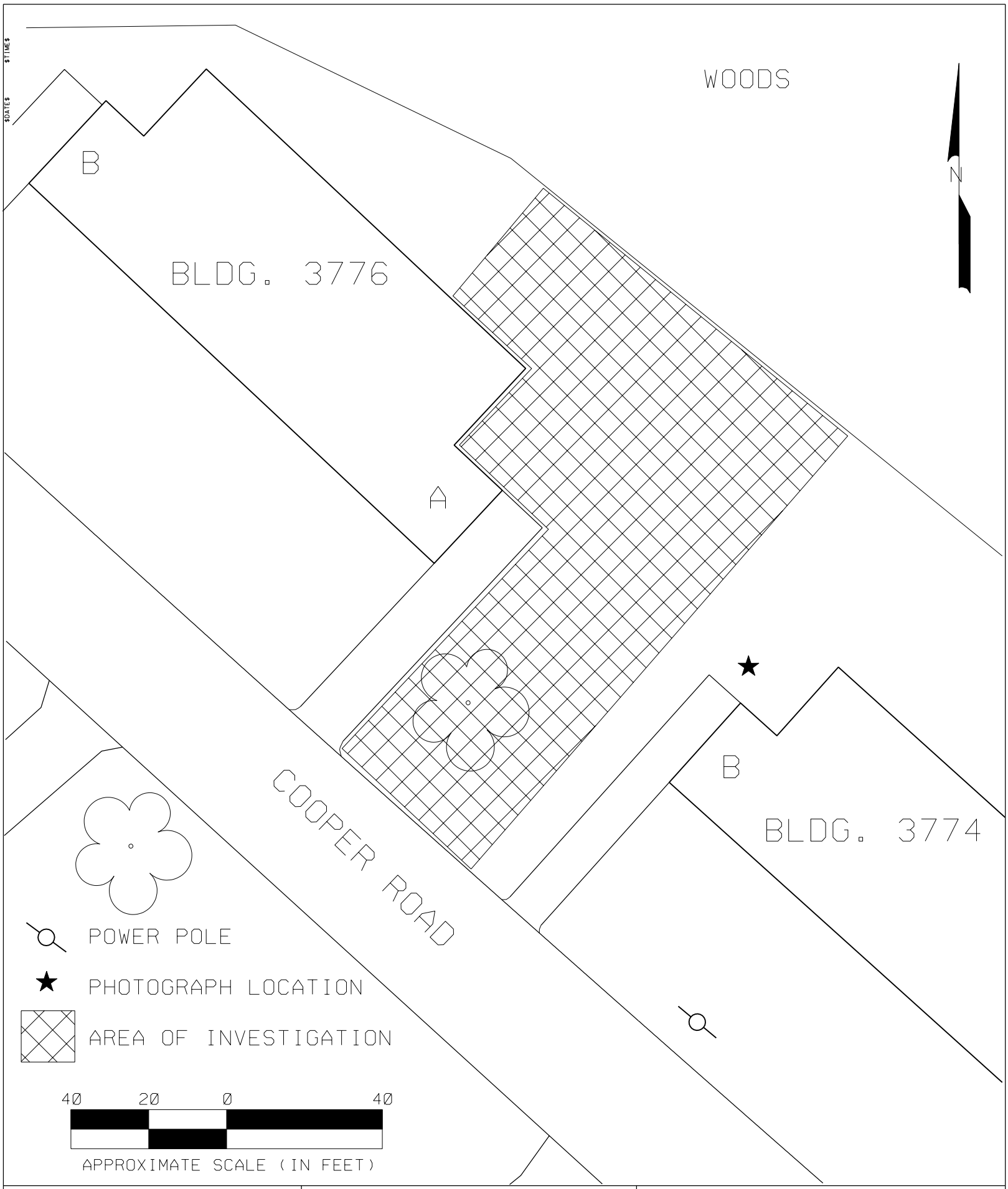

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PROJECT TITLE: DEH SITE INVESTIGATION

PROJECT #:	TASK:	DATE:	DRAWN BY:	SCALE:	FIGURE:
ZE002500	Task 4	18 SEPT 2000	J.SHIFLET	AS SHOWN	11

$FILE$

\drawings\bldg3776.dgn Oct 22, 2001 10:56:22

Appendix D

Site Investigation Photographs

1. Building 84 from Drennen Drive, facing south.

2. Building 940 from 3rd Avenue, facing southwest.

3. Building 1876 from unknown side street, facing southwest.

4. Building 2239 site from eastern corner of demolition area, facing southwest.

5. Building 3311 from southern portion of lot, facing north.

6. Building 3509 from northern portion lot, facing southwest.

7. Building 3514 (adjacent to and north of 3512) from walkway, facing east.

8. Building 3406 from center of front yard, facing south.

9. Building 3742 from Littlebrant Drive, facing north.

10. Building 3743 from Littlebrant Drive, facing southwest.

11. Building 3776 from driveway of 3774, facing northwest.

Appendix E

Site Safety and Health Briefing Logs

ZAPATAENGINEERING, P.A.

Site Safety and Health Briefing Log

Date: 7/31/00	Location: Fort McClellan
Time: 0730 (AM) PM	Prime: ZAPATA ENGINEERING
Weather: Mostly Sunny	Subcontractors: USA Environmental

1. Briefing Type:

✓	Initial Safety Briefing		New Site Procedure
	Daily Safety Briefing		New Site Information
	New Task Briefing		Review of Site Information
	Periodic Safety Meeting		Other: (Specify)

2. Personnel Attending:

The contents of the Work Plan have been explained to me and I have had the opportunity to review the Work Plan concerning the ordnance and/or environmental investigations at the site location noted above. I understand the information and hazards presented and I agree to comply with the stated policies and procedures set forth in said Work Plan. I recognize that these are minimum levels of protection based on current knowledge of the hazards present at the site location noted above.

Name	Signature	Company
Jason Shiflet	[signature]	ZE
Danny Paul	[signature]	USAE
Ed Hernandez	[signature]	USAE

3. Topics: (Check all that apply)

✓	Site Safety Personnel		Decontamination Procedures
✓	Site/Work Area Description	✓	Emergency Response/Equipment
✓	Physical Hazards		On-site Injuries/Illnesses
	Chemical/Biological Hazards		Reporting Procedures
	Heat/Cold Stress	✓	Directions to Medical Facilities
✓	Work/Support Zones		Drug, Alcohol and Smoking Policies
	Personal Protective Equipment		Medical Monitoring
✓	Safe Work Practices		Evacuation/Egress Procedures
	Air Monitoring	✓	Communications
	Task Training		Confined Spaces
	OE Precautions		Site Do's and Don'ts
✓	Points of Contact		Other: (Specify)

4. Remarks/Comments:

5. Briefing Conducted by:

Name	Signature	Company
Danny Paul	[signature]	USAE

ZAPATAENGINEERING, P.A.

Site Safety and Health Briefing Log

Date: 8/1/00	Location: Fort McClellan
Time: 0720 (AM) PM	Prime: ZAPATA ENGINEERING
Weather:	Subcontractors: USA Environmental

1. Briefing Type:

	Initial Safety Briefing		New Site Procedure
X	Daily Safety Briefing		New Site Information
	New Task Briefing		Review of Site Information
	Periodic Safety Meeting		Other: (Specify)

2. Personnel Attending:

The contents of the Work Plan have been explained to me and I have had the opportunity to review the Work Plan concerning the ordnance and/or environmental investigations at the site location noted above. I understand the information and hazards presented and I agree to comply with the stated policies and procedures set forth in said Work Plan. I recognize that these are minimum levels of protection based on current knowledge of the hazards present at the site location noted above.

Name	Signature	Company
Jason Shiflet	Jason Shiflet	ZE
Danny P. Paul	[illegible]	USAE
Ed Hugueenin	[illegible]	USAE

3. Topics: (Check all that apply)

	Site Safety Personnel		Decontamination Procedures
✓	Site/Work Area Description		Emergency Response/Equipment
	Physical Hazards		On-site Injuries/Illnesses
	Chemical/Biological Hazards		Reporting Procedures
	Heat/Cold Stress	✓	Directions to Medical Facilities
✓	Work/Support Zones		Drug, Alcohol and Smoking Policies
	Personal Protective Equipment		Medical Monitoring
	Safe Work Practices		Evacuation/Egress Procedures
	Air Monitoring		Communications
	Task Training		Confined Spaces
	OE Precautions		Site Do's and Don'ts
	Points of Contact		Other: (Specify)

4. Remarks/Comments:

5. Briefing Conducted by:

Name	Signature	Company
Danny P. Paul	[illegible]	USAE

ZAPATAENGINEERING, P.A.

Site Safety and Health Briefing Log

Date: 8/2/00	Location: Fort McClellan
Time: 0730 (AM) PM	Prime: ZAPATA ENGINEERING
Weather: Partly Cloudy	Subcontractors: USA Environmental

1. Briefing Type:

	Initial Safety Briefing		New Site Procedure
X	Daily Safety Briefing		New Site Information
	New Task Briefing		Review of Site Information
	Periodic Safety Meeting		Other: (Specify)

2. Personnel Attending:

The contents of the Work Plan have been explained to me and I have had the opportunity to review the Work Plan concerning the ordnance and/or environmental investigations at the site location noted above. I understand the information and hazards presented and I agree to comply with the stated policies and procedures set forth in said Work Plan. I recognize that these are minimum levels of protection based on current knowledge of the hazards present at the site location noted above.

Name	Signature	Company
Jason Shiflet	Jason Shiflet	ZE
Danny Pal	[illegible]	USAE
Ed Hauenin	[illegible]	USAE

3. Topics: (Check all that apply)

	Site Safety Personnel		Decontamination Procedures
	Site/Work Area Description	✓	Emergency Response/Equipment
	Physical Hazards		On-site Injuries/Illnesses
	Chemical/Biological Hazards		Reporting Procedures
	Heat/Cold Stress		Directions to Medical Facilities
✓	Work/Support Zones		Drug, Alcohol and Smoking Policies
	Personal Protective Equipment		Medical Monitoring
✓	Safe Work Practices		Evacuation/Egress Procedures
	Air Monitoring		Communications
	Task Training		Confined Spaces
✓	OE Precautions		Site Do's and Don'ts
	Points of Contact		Other: (Specify)

4. Remarks/Comments:

5. Briefing Conducted by:

Name	Signature	Company
Danny Pal	[illegible]	USAE

ZAPATAENGINEERING, P.A.

Site Safety and Health Briefing Log

Date: 8 / 3 / 00	Location: Fort McClellan
Time: 0730 (AM) PM	Prime: ZAPATA ENGINEERING
Weather: partly cloudy	Subcontractors: USA Environmental

1. Briefing Type:

	Initial Safety Briefing		New Site Procedure
✓	Daily Safety Briefing		New Site Information
	New Task Briefing		Review of Site Information
	Periodic Safety Meeting		Other: (Specify)

2. Personnel Attending:

The contents of the Work Plan have been explained to me and I have had the opportunity to review the Work Plan concerning the ordnance and/or environmental investigations at the site location noted above. I understand the information and hazards presented and I agree to comply with the stated policies and procedures set forth in said Work Plan. I recognize that these are minimum levels of protection based on current knowledge of the hazards present at the site location noted above.

Name	Signature	Company
Jason Shiflet	[signature]	ZE
Danny Pal	[signature]	USAE
Ed Haguenin	[signature]	USAE

3. Topics: (Check all that apply)

	Site Safety Personnel		Decontamination Procedures
	Site/Work Area Description		Emergency Response/Equipment
✓	Physical Hazards		On-site Injuries/Illnesses
	Chemical/Biological Hazards		Reporting Procedures
	Heat/Cold Stress		Directions to Medical Facilities
✓	Work/Support Zones		Drug, Alcohol and Smoking Policies
	Personal Protective Equipment		Medical Monitoring
	Safe Work Practices		Evacuation/Egress Procedures
	Air Monitoring	✓	Communications
	Task Training		Confined Spaces
	OE Precautions		Site Do's and Don'ts
	Points of Contact		Other: (Specify)

4. Remarks/Comments:

5. Briefing Conducted by:

Name	Signature	Company
Danny Pal	[signature]	USAE

Appendix F

Daily UXO Summaries

DAILY OPERATIONS SUMMARY

DATE: 07/31/00 PAGE 1 OF 5 PAGES

SITE / LOCATION: Ft. McClellan, AL.

1. WORK SUMMARY

a. Work Accomplished:

	Number Completed	Total
(1) Survey		
(2) Preparation		
(3) Mag & Flag	3 lots	
(4) Geophysical	2 lots	
(5) Intrusive	2 lots	
(6) Quality Control		
(7) Quality Assurance		

b. Discrepancies: None

c. Inspection Results:

	Pass	Fail
(1) Quality Control		
(2) Quality Assurance		
(3) Safety	✓	

2. INSTRUCTIONS RECEIVED FROM CUSTOMER REPRESENTATIVE:

Continue with workplan.

3. UXO SUMMARY

a. UXO Located: None

Type:	Quanity:	Total:	Remarks:

b. **Demolition Supplies Expended:** None

Type:	Quanity:	Total:	Remarks:

c. **Scrap Generation / Deposition:**

Type:	Quanity:	Total:	Weight:	Total:
Non-UXO			2 lbs.	

4. Utilization

a. Daily Manhours:

Labor Category:	Task:	M/H Used Today:	M/H Remaining:	% M/H Remaining:	Remarks:
Project Manager					
SUXO		10	30	75%	
UXO Supervisor					
UXO Specialist		10	30	75%	
UXO Assistant					
Laborer					
Site Safety					
Admin Personnel					
Visitor					
Sub-Contractor Personnel (List by Category)					

b. Daily Equipment:

Description:	Task:	Hours Used:	Hours Remaining:	% Hours Remaining:	Remarks:
Schonstedt		10			
Geophysical		10			
Truck (Heavy)					
Truck (Light)					
Radio, Base					
Radio, Handheld					
Backhoe					
Frontend Loader					
~~Rental Car~~ pov		10			
GPS					
Weedeater					
Chainsaw					
Chipper					

5. Operational Remarks:

Day started with safety briefs by Environmental Office and EODT contractors. Met with COE rep to discuss operational details.
Completed house lot #'s 3311, + 3406. Began lot # 3509

6. Signature / Date:

SUXO / Project Manager

Date: 7/31/00

DAILY OPERATIONS SUMMARY

DATE: 8 / 01 / 00 PAGE 1 OF 5 PAGES

SITE / LOCATION: Ft. McClellan, AL

1. WORK SUMMARY

a. Work Accomplished:

	Number Completed	Total / To Date
(1) Survey		
(2) Preparation		
(3) Mag & Flag	5 lots	7
(4) Geophysical	5 lots	7
(5) Intrusive	5 lots	7
(6) Quality Control		
(7) Quality Assurance		

b. Discrepancies: None

c. Inspection Results:

	Pass	Fail
(1) Quality Control		
(2) Quality Assurance		
(3) Safety	✓	

2. INSTRUCTIONS RECEIVED FROM CUSTOMER REPRESENTATIVE:

Continue with workplan.

3. UXO SUMMARY

a. UXO Located: None

Type:	Quanity:	Total:	Remarks:

b. **Demolition Supplies Expended:** None

Type:	Quanity:	Total:	Remarks:

c. **Scrap Generation / Deposition:**

Type:	Quanity:	Total:	Weight:	Total: To Date
Non-UXO			5 lbs	5 lbs

4. Utilization

a. Daily Manhours:

Labor Category:	Task:	M/H Used Today:	M/H Remaining:	% M/H Remaining:	Remarks:
Project Manager					
SUXO		10	20	50	
UXO Supervisor					
UXO Specialist		10	20	50	
UXO Assistant					
Laborer					
Site Safety					
Admin Personnel					
Visitor					
Sub-Contractor Personnel (List by Category)					

b. Daily Equipment:

Description:	Task:	Hours Used:	Hours Remaining:	% Hours Remaining:	Remarks:
Schonstedt		10	20	50%	
Geophysical		10	20	50%	
Truck (Heavy)					
Truck (Light)					
Radio, Base					
Radio, Handheld					
Backhoe					
Frontend Loader					
~~Rental Car~~ POV		10			
GPS					
Weedeater					
Chainsaw					
Chipper					

5. Operational Remarks:

Completed lot # 3509 began on 7/31/00. Completed lots # 3572, 3776, 3743 and 89.

6. Signature / Date:

SUXO / Project Manager

Date: 8 / 01 / 00

DAILY OPERATIONS SUMMARY

DATE: 8 / 2 / 00 PAGE 1 OF 5 PAGES

SITE / LOCATION: Ft. McClellan, AL

1. WORK SUMMARY

a. Work Accomplished:

	Number Completed	Total To Date
(1) Survey		
(2) Preparation		
(3) Mag & Flag	3	10
(4) Geophysical	3	10
(5) Intrusive	3	10
(6) Quality Control		
(7) Quality Assurance		

b. Discrepancies: None

c. Inspection Results:

	Pass	Fail
(1) Quality Control		
(2) Quality Assurance		
(3) Safety	✓	

2. INSTRUCTIONS RECEIVED FROM CUSTOMER REPRESENTATIVE:
Continue with workplan.

3. UXO SUMMARY

a. UXO Located: NONE

Type:	Quanity:	Total:	Remarks:

Daily Operations Summary Con't. PAGE 3 of 5 PAGES

b. Demolition Supplies Expended: None

Type:	Quanity:	Total:	Remarks:

c. Scrap Generation / Deposition:

Type:	Quanity:	Total:	Weight:	Total: Date
Non-OE			20 lbs	25 lbs

4. Utilization

a. Daily Manhours:

Labor Category:	Task:	M/H Used Today:	M/H Remaining:	% M/H Remaining:	Remarks:
Project Manager					
SUXO		10	10	25%	
UXO Supervisor					
UXO Specialist		10	10	25%	
UXO Assistant					
Laborer					
Site Safety					
Admin Personnel					
Visitor					
Sub-Contractor Personnel (List by Category)					

b. Daily Equipment:

Description:	Task:	Hours Used:	Hours Remaining:	% Hours Remaining:	Remarks:
Schonstedt		10	10	25%	
Geophysical		10	10	25%	
Truck (Heavy)					
Truck (Light)					
Radio, Base					
Radio, Handheld					
Backhoe					
Frontend Loader					
~~Rental Car~~ POV		10	10	25%	
GPS					
Weedeater					
Chainsaw					
Chipper					

5. Operational Remarks:

Completed lot#'s 2239, 940 and 1876.

6. Signature / Date:

SUXO / Project Manager

Date: 8 / 2 / 00

DAILY OPERATIONS SUMMARY

DATE: 8 / 3 / 00 PAGE 1 OF 5 PAGES

SITE / LOCATION: Ft. McClellan AL

1. WORK SUMMARY

a. Work Accomplished:

	Number Completed	Total
(1) Survey		
(2) Preparation		
(3) Mag & Flag	1	11
(4) Geophysical	1	11
(5) Intrusive	1	11
(6) Quality Control		
(7) Quality Assurance		

b. Discrepancies: None

c. Inspection Results:

	Pass	Fail
(1) Quality Control		
(2) Quality Assurance		
(3) Safety	✓	

2. INSTRUCTIONS RECEIVED FROM CUSTOMER REPRESENTATIVE:

Job Complete

3. UXO SUMMARY

a. UXO Located: NONE

Type:	Quanity:	Total:	Remarks:

Daily Operations Summary Con't. PAGE 3 of 5 PAGES

b. Demolition Supplies Expended: NONE

Type:	Quanity:	Total:	Remarks:

c. Scrap Generation / Deposition:

Type:	Quanity:	Total:	Weight:	Total: Date
Non-UXO			1 lb	26 lbs

4. Utilization

a. Daily Manhours:

Labor Category:	Task:	M/H Used Today:	M/H Remaining:	% M/H Remaining:	Remarks:
Project Manager					
SUXO		10	ϕ	ϕ	
UXO Supervisor					
UXO Specialist		10	ϕ	ϕ	
UXO Assistant					
Laborer					
Site Safety					
Admin Personnel					
Visitor					
Sub-Contractor Personnel (List by Category)					

b. Daily Equipment:

Description:	Task:	Hours Used:	Hours Remaining:	% Hours Remaining:	Remarks:
Schonstedt		10	Ø	Ø	
Geophysical		10	Ø	Ø	
Truck (Heavy)					
Truck (Light)					
Radio, Base					
Radio, Handheld					
Backhoe					
Frontend Loader					
~~Rental Car~~ POV		10	Ø	Ø	
GPS					
Weedeater					
Chainsaw					
Chipper					

5. Operational Remarks:
Completed not # 3742.

6. Signature / Date:

SUXO / Project Manager

Date: 8 / 3 / 00

U. S. ARMY ENGINEER DIVISION HUNTSVILLE

CORPS OF ENGINEERS

DESIGN REVIEW COMMENTS

PROJECT Fort McClellan DEH Work Site Investigation

- ☐ SITE DEV & GEO
- ☐ ENVIR PROT& UTIL
- ☐ ARCHITECTURAL
- ☐ STRUCTURAL
- ☐ MECHANICAL
- ☐ MFG TECHNOLOGY
- ☐ ELECTRICAL
- ☐ INST & CONTROLS
- ☐ SAFETY
- ☐ ADV TECH
- ☐ ESTIMATING
- ☐ SPECIFICATIONS
- ☐ SYSTEMS ENG
- ☐ VALUE ENG
- ☐ OTHER

REVIEW Draft Report of Investigations of DEH Work Sites

DATE 15 September 2000

NAME USAESCH

ITEM	DRAWING NO. OR REFERENCE	COMMENT	ACTION
1.	Page 1 of 5, paragraph 1.0, line 4	Change “a borrow pit” to “stockpiles”. Rationale – The soil was taken from stockpiles as indicated in paragraph 1.3, not from a borrow pit.	Sentenced changed to reflect “stockpiles” as the source.
2.	Page 1 of 5, paragraph 1.2, lines 2-3	Same as Comment 1. Rationale – See rationale for Comment 1.	Sentenced changed to reflect “stockpiles” as the source.
3.	Page 1 of 5, paragraph 1.3, line 7	Insert the name “Directorate of Environment” before the acronym DOE. Rationale – The name for which the acronym is used has not been provided.	Sentenced updated to explain DOE acronym.
4.	Page 2 of 5, paragraph 2.0, line 4	Change “conduct” to “conducted”. Rationale – The word needs to be changed to make the sentence grammatically correct.	Sentence corrected.

ACTION CODES
A - ACCEPTED/CONCUR
D - ACTION DEFERRED
W - WITHDRAWN
N - NON-CONCUR
VE - VE POTENTIAL/VEP ATTACHED