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MEETING SUMMARY REGARDING SITE SCREENING PLAN BCT REVIEW NTC ORLANDO  
FL  
6/9/1994  
ABB ENVIRONMENTAL SERVICES, INC

9 June 1994

**MEMORANDUM FOR THE RECORD**

RECEIVED

OCT 24 1994

C. PERRY

From: Philip Georgariou

To: Distribution

Subject: **NTC, Orlando Site Screening Plan BCT Review**

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The meeting was held on June 6th in North Charleston and addressed a number of issues related to the environmental program at NTC, Orlando. A copy of the agenda, as well as other handouts, are attached. Attendees included:

Jim Reed, SouthDiv  
Wayne Hansel, SouthDiv  
Barbara Nwokike, SouthDiv  
Craig Brown, USEPA, Region IV  
David Clowes, FDEP  
Philip Georgariou, ABB-ES (Orange Park, FL)  
Tracy Stenner, ABB-ES (Wakefield, MA)  
Mark Salvetti, ABB-ES (Wakefield, MA)

A discussion was held on the allegedly-contaminated irrigation wells on the Main Base. Only anecdotal information was obtained during the EBS. (Craig Brown and David Clowes agreed to research their headquarters for any record of this contamination.) It was agreed that they needed to be investigated, and that it would be relatively inexpensive to sample the six existing wells. The appropriate depth at which to sample will need to be determined. A modification to the current POA will be provided to reflect obtaining and analyzing these additional groundwater samples. A short report of the results will be provided. *(Note: During a meeting at NTC, Orlando on June 8th, drawing files for the irrigation system were reviewed. The wells appear to have been built as part of the irrigation system in 1972/3 and have never been used as a potable water source. As such, no sampling is deemed to be required at this time.)*

Phil Georgariou provided an overview of the Study Area review process (see attached diagram) that will be followed for the Base. Samples will be analyzed using Level IV DQOs. In response to comments from USEPA (Region IV), an additional step is now being proposed (which is different from what the current POA proposes). If there is cause for concern after comparing analytical results to published (USEPA Region III) risk-based concentrations, a site-specific Preliminary Risk Evaluation (PRE) will be performed. Full data packages, for one sample per sample delivery group (SDG), will be obtained from the laboratory and validated. Based upon BCT approval of this approach, a modification to the POA will be forwarded to

SouthDiv to add the level of effort for these PREs. David Clowes cautioned that the analytical methods to be used must meet detection limits at least as low as Florida's MCLs and the USEPA Region III risk-based concentrations.

Mark Salvetti provided an overview of the proposed screening methodologies to be used at the first 10 study areas. Copies of the proposed investigation diagrams are attached. Unless comments are noted herein, the presented methodologies were accepted as proposed.

Sludge from Study Area 2 (Building 6001, abandoned septic tank) is to be sampled and analyzed for TCLP. Craig Brown expressed concern that TCLP analytical methodology may not provide adequate information to the company that will pump the tank out. ABB-ES will review the septic disposal requirements and will ensure that the analysis method chosen provides the required information.

At Study Area 5 (former motor boat rental area), David cautioned that analytical data from wells that are within 100' of a surface body of water must be reviewed against state surface water standards.

David requested that the well in the northwestern corner of Study Area 8 (Building 2134, Greenskeeper Storage) be brought down closer to the cluster of buildings (nearer the open air covered area).

Craig expressed some concern that the proposed "gamma scan" analysis for samples taken at Study Area 8 (former wastewater treatment plant lagoons) will not provide the full range of analysis needed (i.e. for alpha or beta emitters). ABB-ES will review the various analytical methods and ensure that the appropriate one is chosen. The proposed well currently shown on the southern end of the study area will be moved to the western side (for a total of three on that side).

David and Craig indicated that if at least one of the existing down-gradient wells at Study Area 9 (former pesticide/herbicide storage building) doesn't straddle the water table, a new well will have to be added on the down-gradient side. ABB-ES will review existing information to determine if well construction diagrams exist. Once reviewed, a modification to the POA will reflect the additional well, if the records indicate that one is needed.

The Site Screening Plan will now be updated to reflect the comments from this meeting and a Final plan will be published. FDEP and USEPA Region IV will review the document and call the Navy with any comments, but ABB-ES will initiate implementation based on the published version.

A discussion was held regarding the Site Screening work plans for the remaining grey sites. Craig indicated that some of the sites might be able to be reclassified as transferrable based on a physical review of the building and that, perhaps, no site screening will be required. ABB-ES will review the list of grey sites and propose a list that may fit that category. Those sites can then be reviewed at the next BCT meeting which will be held at NTC, Orlando. For those sites that will require actual screening, work plans will be written for groups of 10-15 (or other logical groupings) at a time and provided to the BCT for review. The Navy can then request a proposal for implementation of those screening actions.

Mark reviewed the current (proposed) plan for establishing background contaminant levels. Both Craig and David agreed with the proposed quantities of soil and groundwater samples. A question was raised regarding the need to do multiple rounds of sampling of groundwater to ascertain seasonal variations. At this time, all agreed that one round of samples will be sufficient. Proper sampling techniques must be used (low-flow pumping) to reduce turbidity and thus reduce probability of elevated levels of metals. Craig agreed to provide a copy of the Myrtle Beach AFB background sampling plan.

A discussion of groundwater sampling techniques followed. The Site Screening Plan (SSP) proposes establishing a relationship between total suspended solids (TSS) and groundwater inorganics through the analysis of both filtered and unfiltered groundwater samples. Neither FDEP or USEPA Region IV, however, will accept the analytical results of filtered groundwater samples. The low-flow sampling methodology

proposed by USEPA Region IV appears to be the method of choice. This method utilizes a peristaltic pump to purge and withdraw water samples from monitoring wells. Craig agreed to provide an EPA SOP for this methodology, if there is one available.

Tracy Stenner reviewed the current status of the Project Operations Plan. Comments have been received from the Navy, the State, and USEPA Region IV. Specific response letters will not be sent. All comments will be addressed in the Final version.

A discussion was held regarding what constituted "surface" soil. Craig indicated that USEPA regards 0 - 12" while David stated that FDEP considers 0 - 24" as surface soil. Because NTC, Orlando must receive FDEP approval on assigning "transferrable" status, their definition will be used. Tracy will review what is being done on other Florida bases and will provide that information to David. David will then review any inconsistencies and provide any additional guidance that may be required.

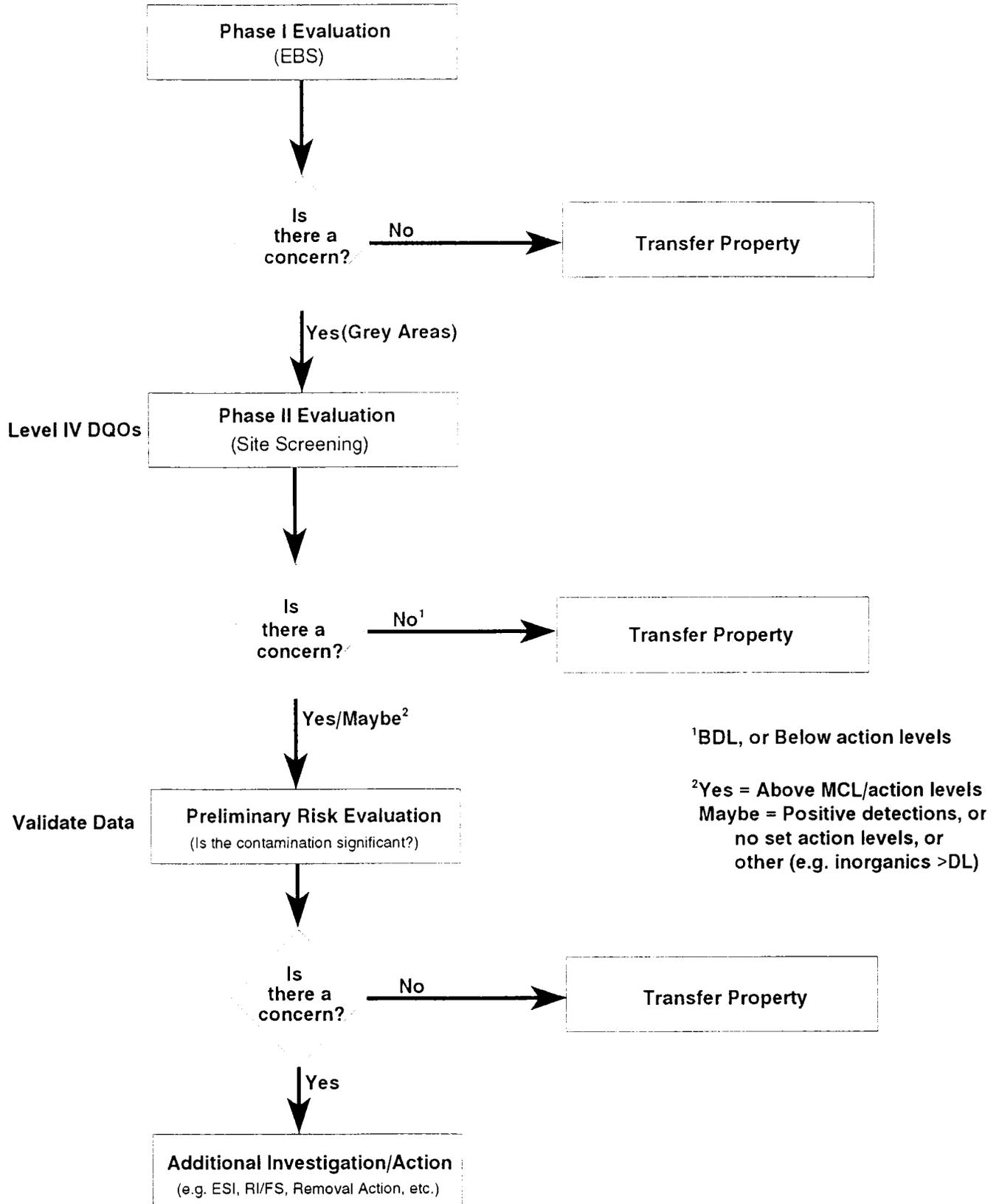
The final discussion centered around the applications for the RAB. Generally speaking, the applications received did not represent a good cross-section of the community that was desired. The BCT agreed that further applications should be sought. A meeting will be held in Orlando on June 8th to discuss this further.

The next BCT meeting will be held in Orlando on 6/7 July. A follow-on meeting is scheduled for 17/18 August.

Distribution: Attendees  
Ken Busen  
Gerry Girardot  
File

# Study Area Review Process

## Base Realignment and Closure

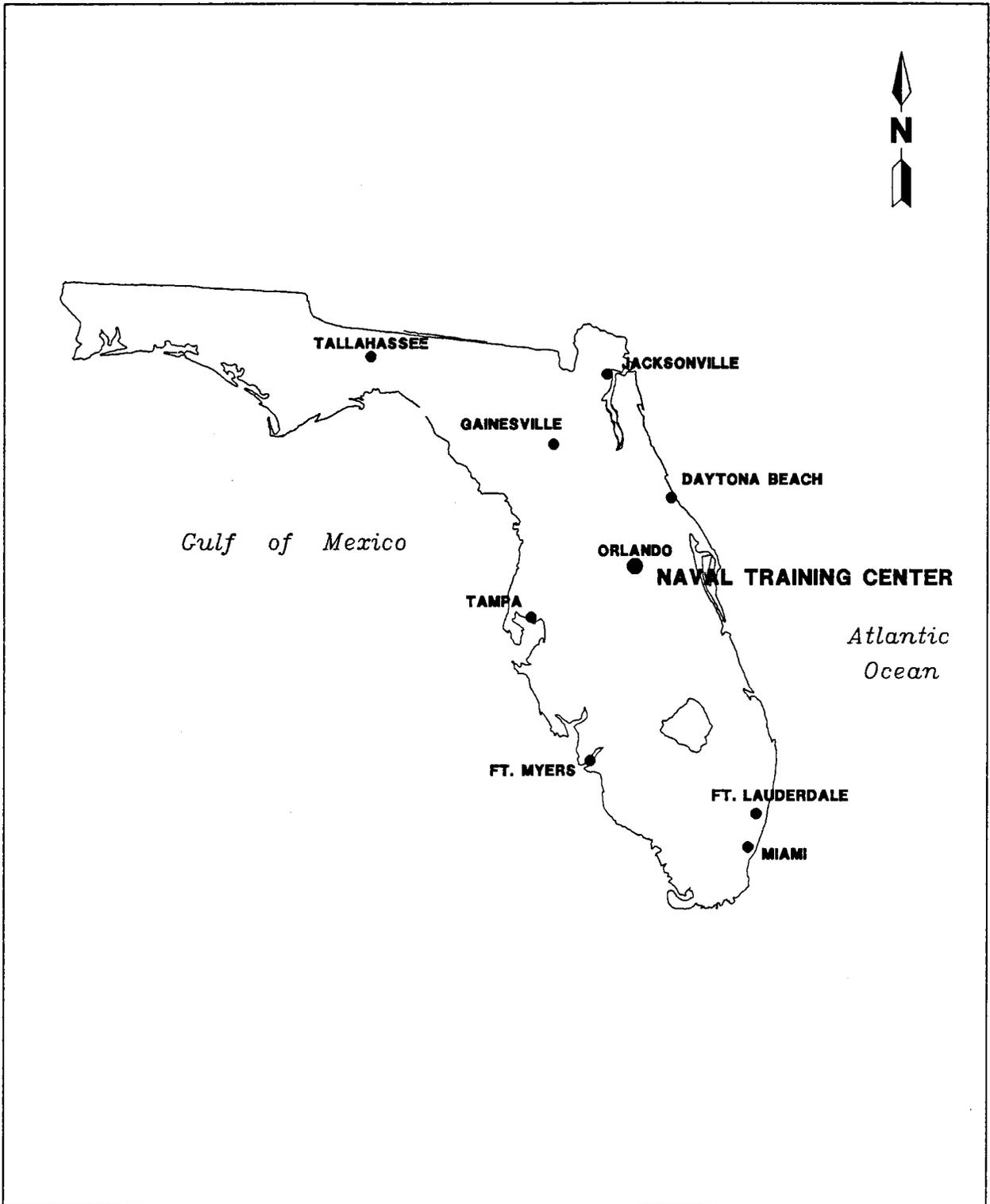


## **AGENDA**

### **NTC ORLANDO STATUS MEETING**

Monday, June 6, 1994  
Charleston, SC

1. Site Screening Methodology
2. Group 1 Site Screening Study Areas - Technical Approach
3. Future Study Areas
4. Background Sampling
5. Project Operation Plan - Status
6. Restoration Advisory Board - Selection Process

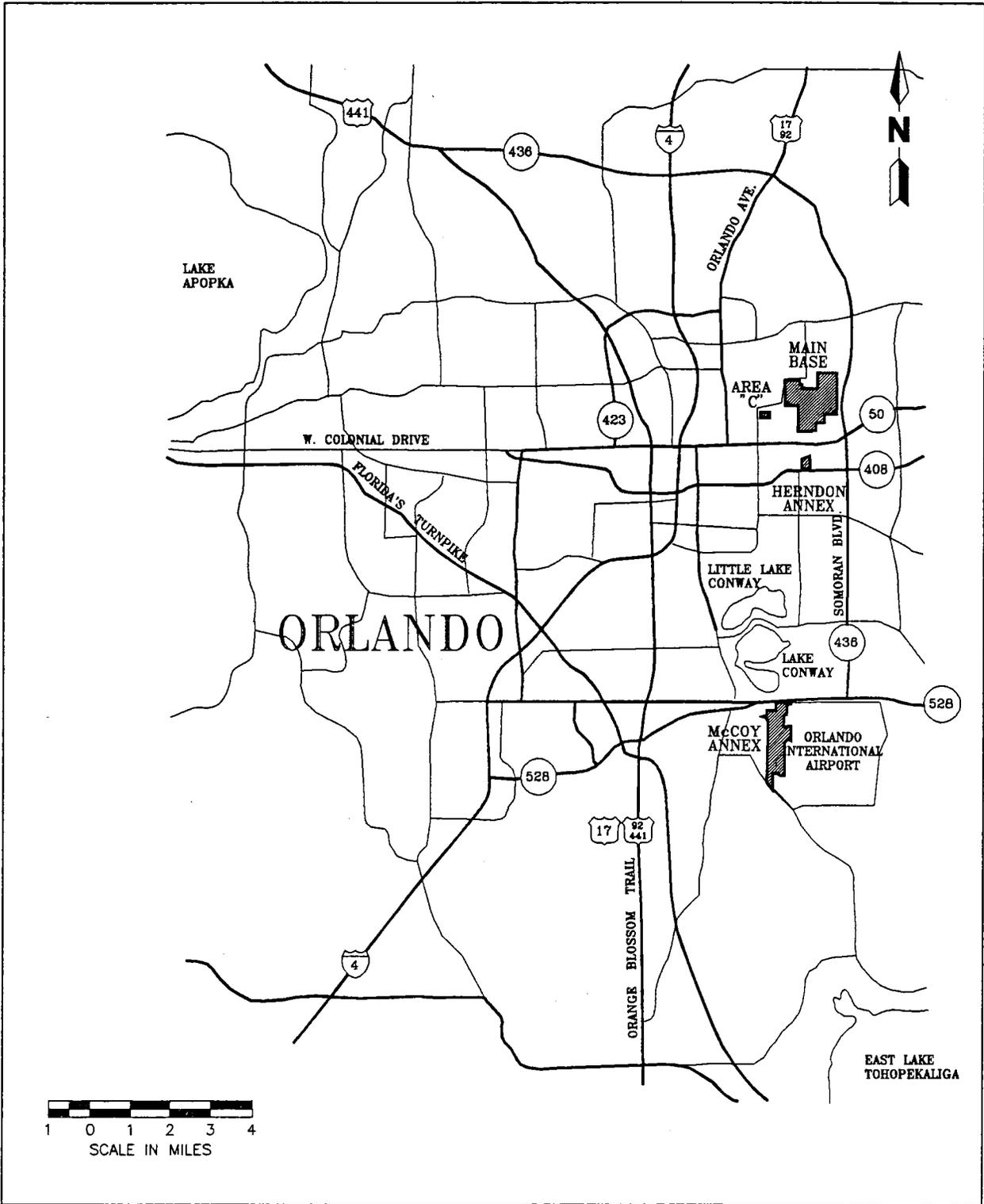


**FIGURE 1-1**



**SITE SCREENING PLAN  
GROUP I STUDY AREAS**

**NAVAL TRAINING CENTER  
ORLANDO, FLORIDA**

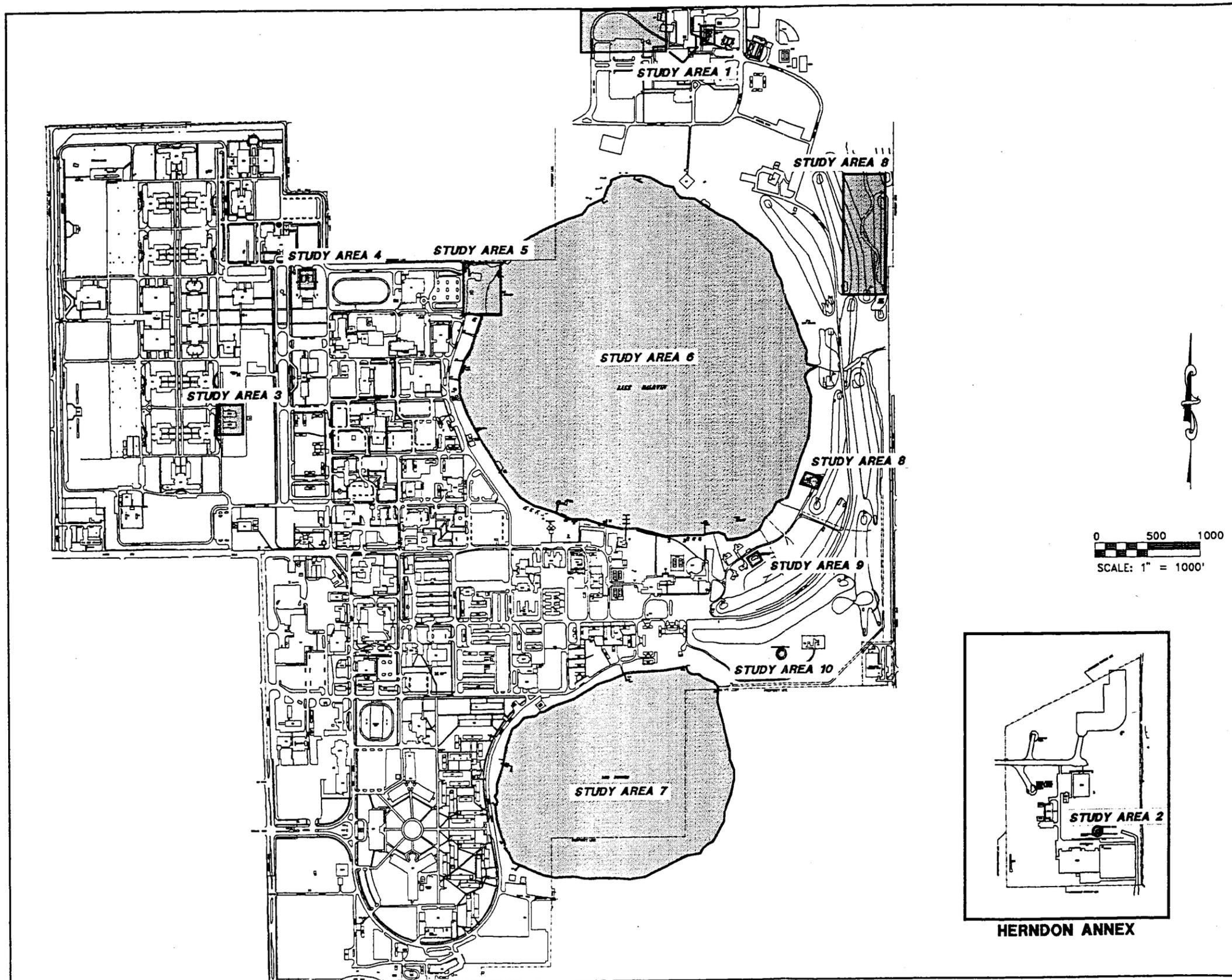


**FIGURE 1-2**



**SITE SCREENING PLAN  
GROUP I STUDY AREAS**

**NAVAL TRAINING CENTER  
ORLANDO, FLORIDA**

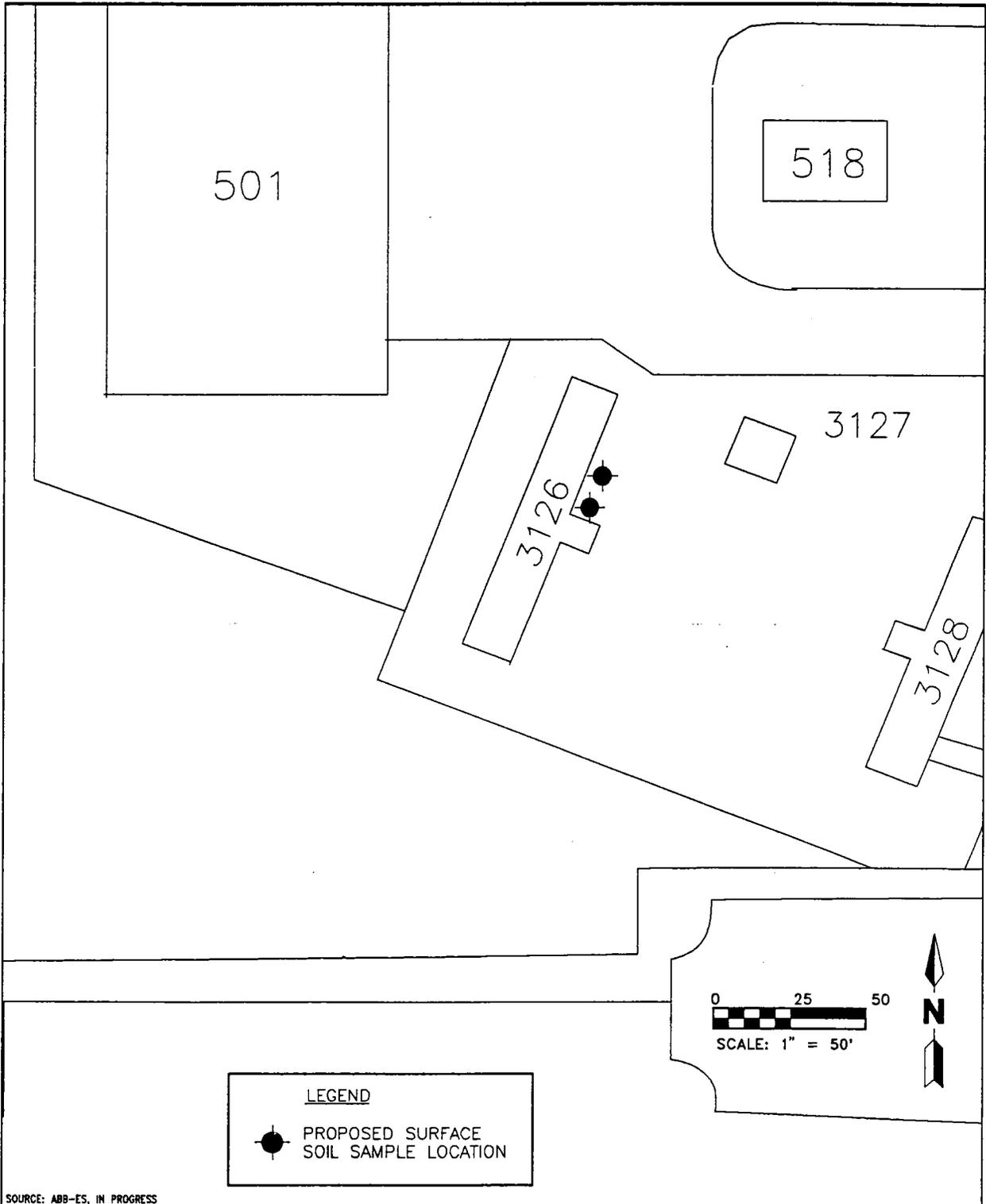


**FIGURE 1-3  
LOCATIONS OF STUDY AREAS**

**SITE SCREENING PLAN  
GROUP I STUDY AREAS**

**NAVAL TRAINING CENTER  
ORLANDO, FLORIDA**





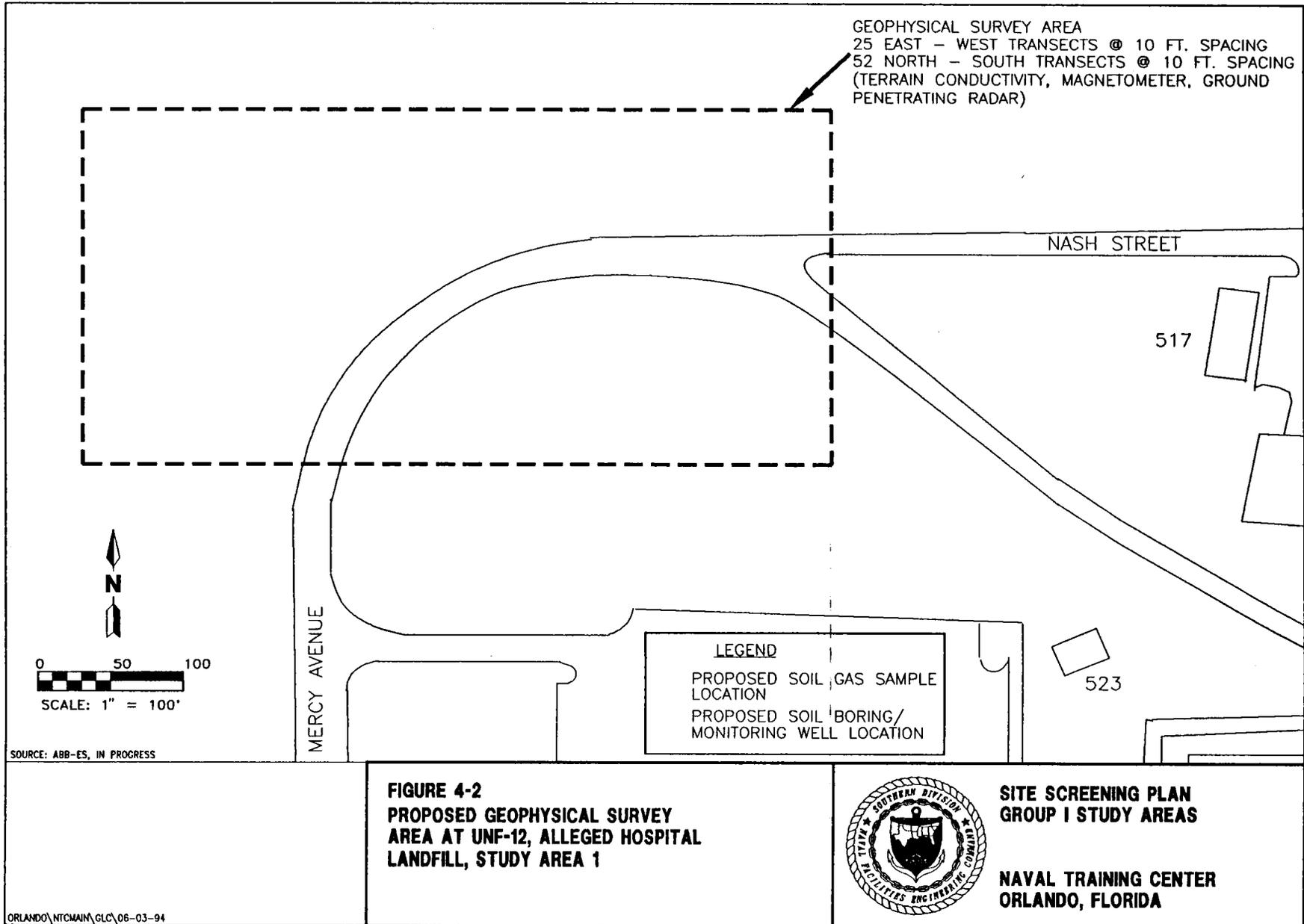
SOURCE: ABB-ES, IN PROGRESS

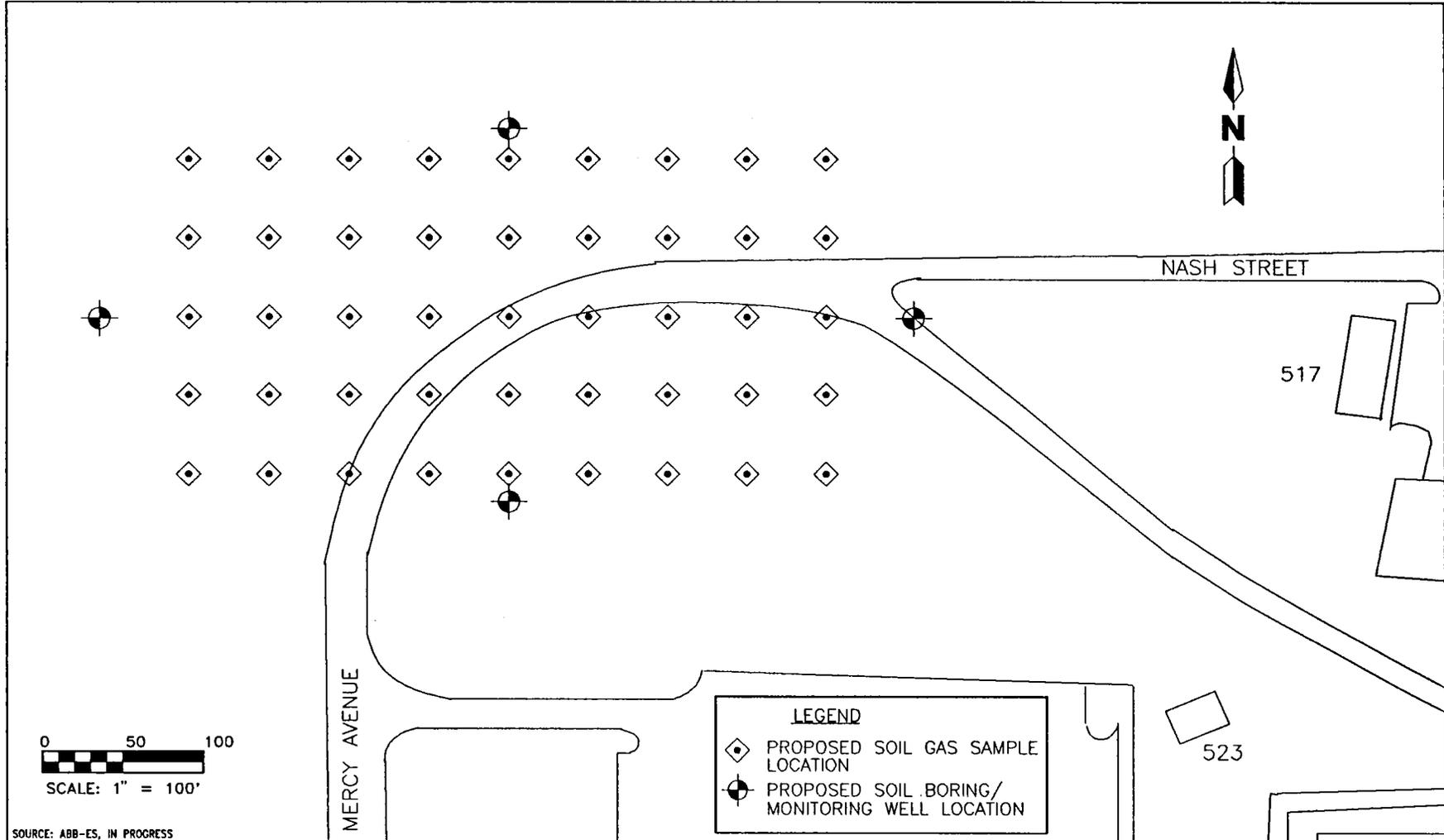
**FIGURE 4-1**  
**PROPOSED SURFACE SOIL SAMPLE LOCATIONS**  
**AT BUILDING 3126, CIVILIAN BEQ,**  
**STUDY AREA 1**



**SITE SCREENING PLAN**  
**GROUP I STUDY AREAS**

**NAVAL TRAINING CENTER**  
**ORLANDO, FLORIDA**





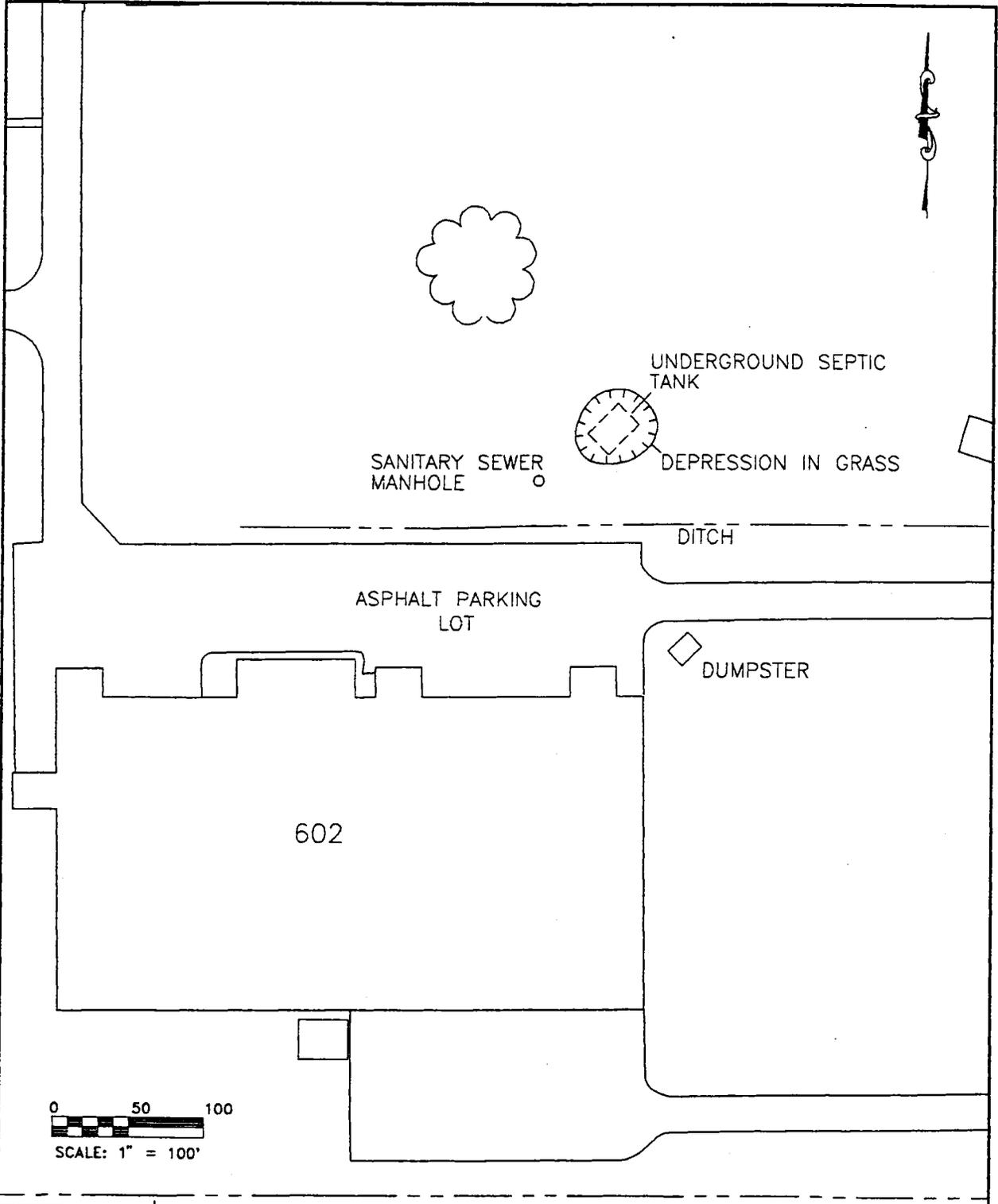
SOURCE: ABB-ES, IN PROGRESS

**FIGURE 4-3**  
**PROPOSED SOIL GAS SURVEY, SOIL BORING AND MONITORING WELL LOCATIONS AT UNF-12, ALLEGED HOSPITAL LANDFILL, STUDY AREA 1**



**SITE SCREENING PLAN**  
**GROUP I STUDY AREAS**

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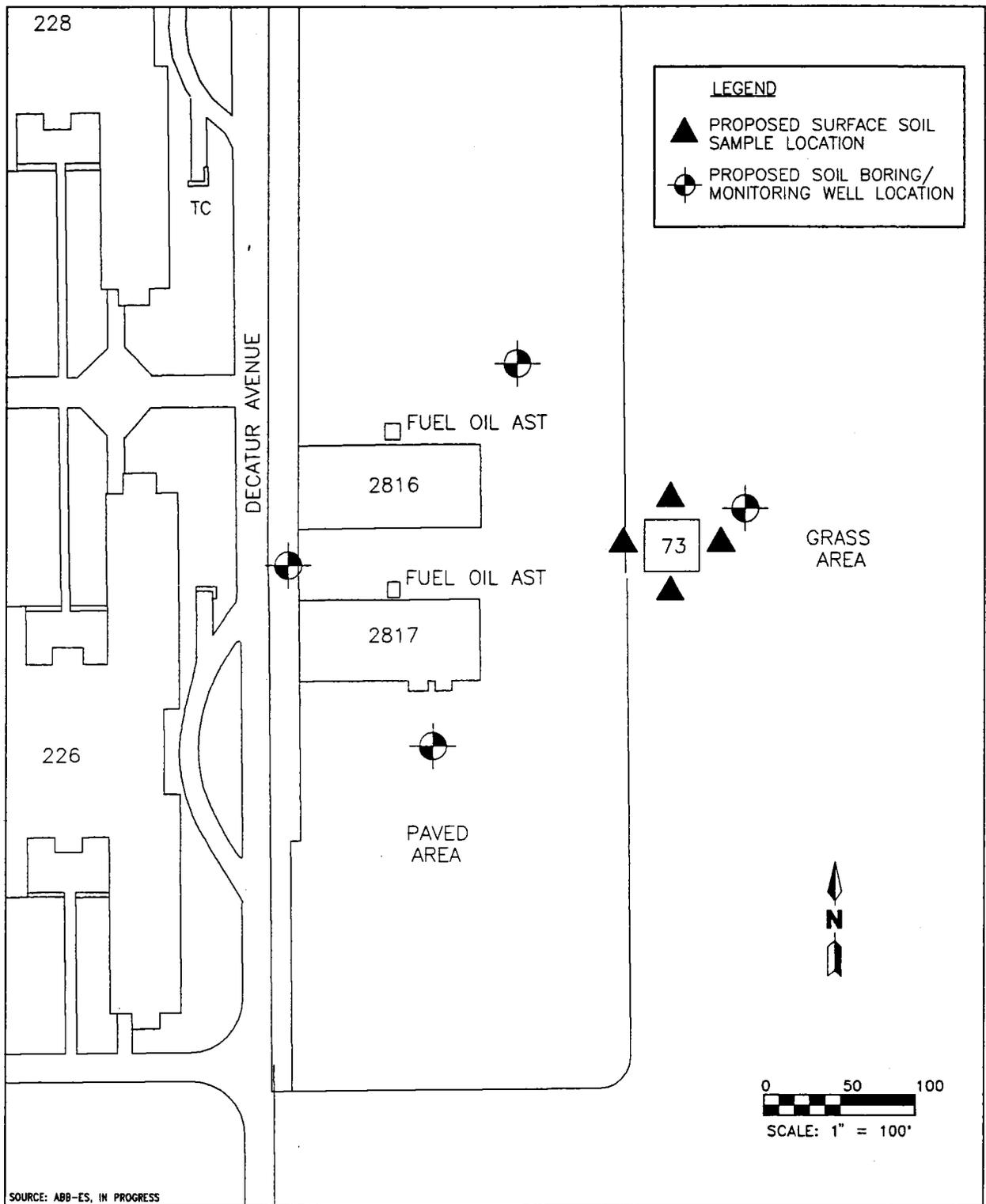


**FIGURE 4-4**  
**BUILDING 6001, ABANDONED**  
**SEPTIC TANK/DRAIN FIELD,**  
**STUDY AREA 2**



**SITE SCREENING PLAN**  
**GROUP 1 STUDY AREAS**

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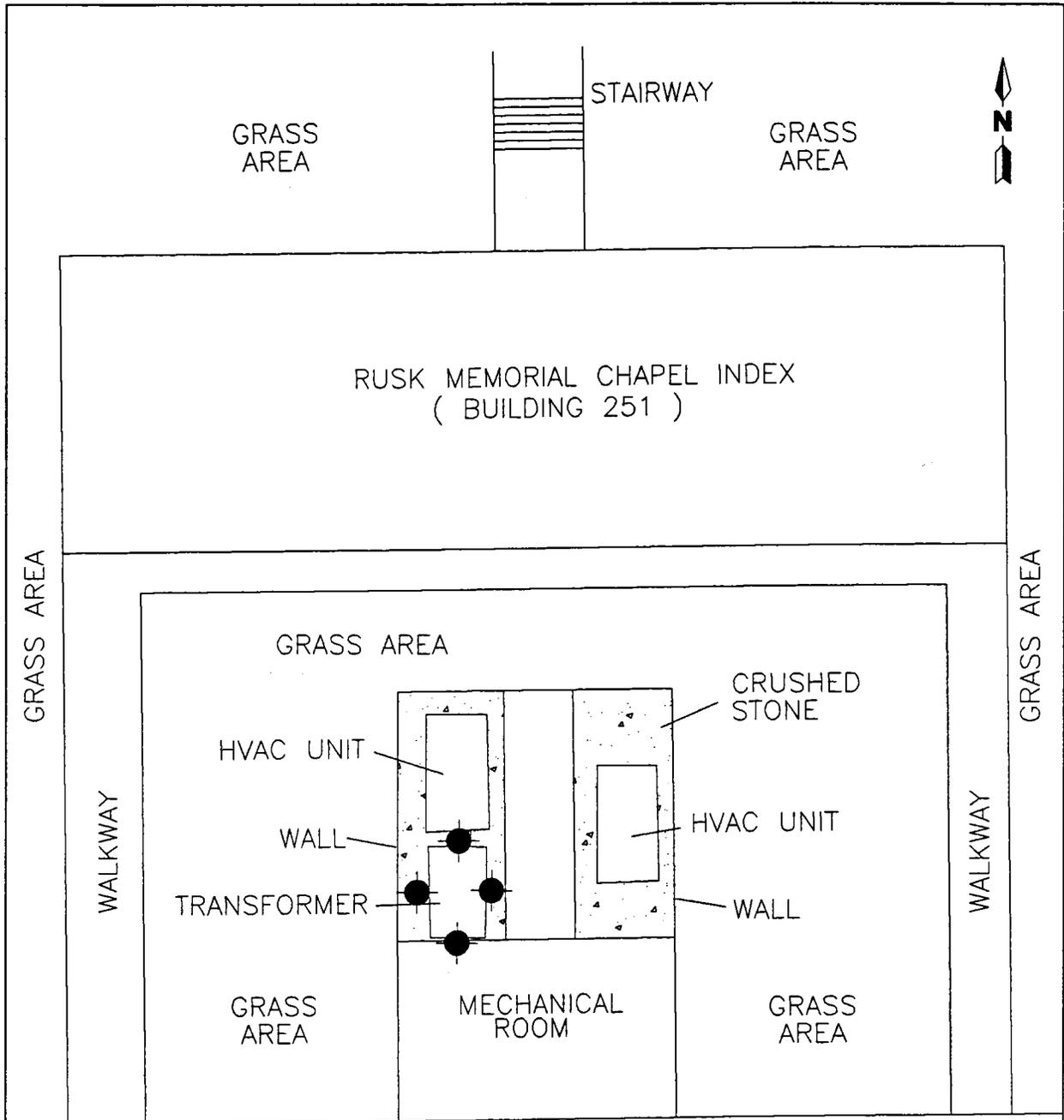
SOURCE: ABB-ES, IN PROGRESS

**FIGURE 4-5**  
**PROPOSED SURFACE SOIL SAMPLE, SOIL BORING,**  
**AND MONITORING WELL LOCATIONS AT BUILDINGS**  
**73, 2816, AND 2817, HAZARDOUS MATERIALS**  
**STORAGE AREA, STUDY AREA 3**



**SITE SCREENING PLAN**  
**GROUP I STUDY AREAS**

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**ORLANDO, FLORIDA**



**LEGEND**

● PROPOSED SOIL SAMPLE LOCATION

RUSK CHAPEL  
( BUILDING 250 )

0 10 20

SCALE: 1" = 20'

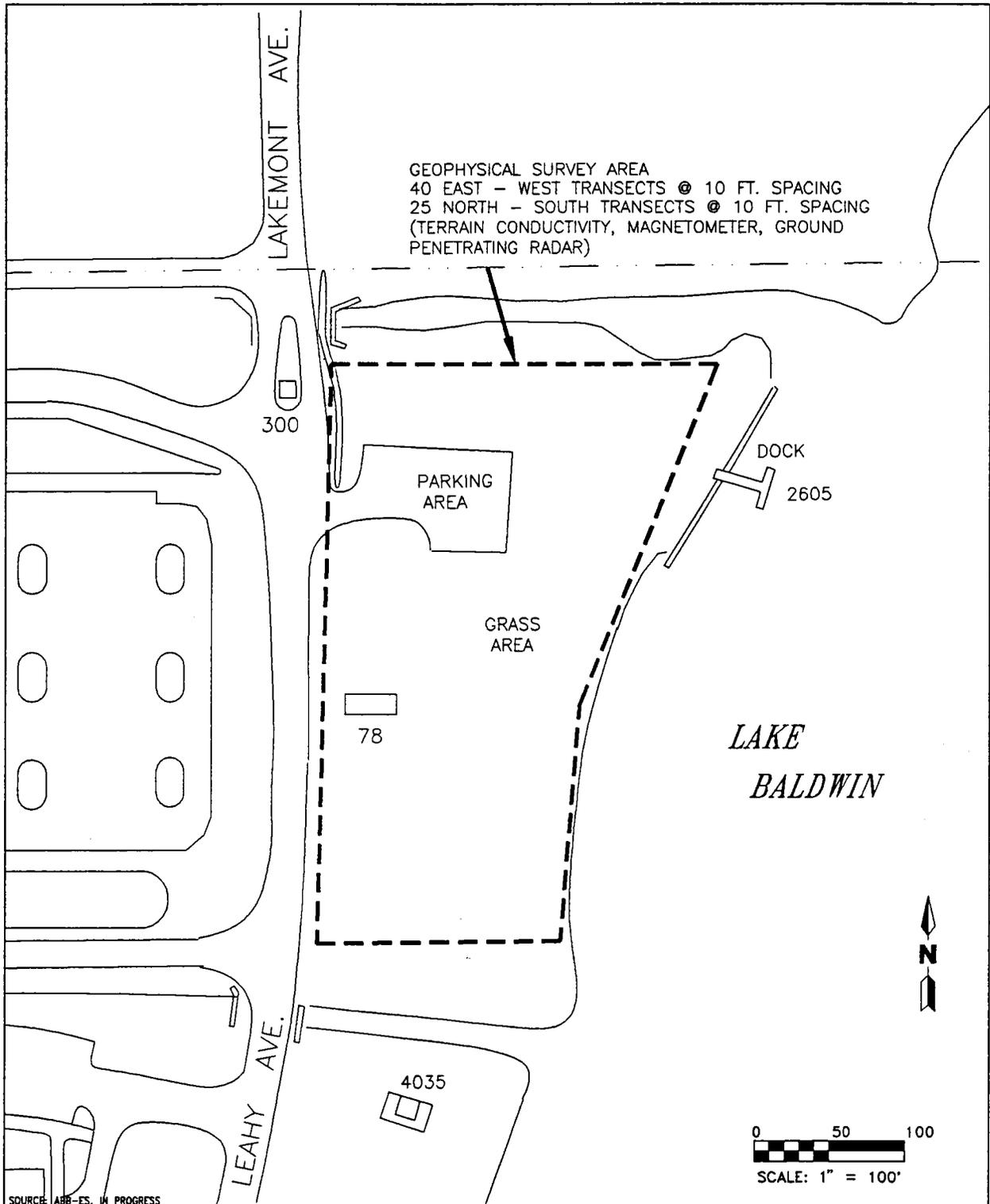
SOURCE: ABB-ES, IN PROGRESS

**FIGURE 4-6**  
**PROPOSED SOIL SAMPLE LOCATIONS**  
**AT BUILDINGS 250 AND 251, RUSK**  
**MEMORIAL CHAPEL,**  
**STUDY AREA 4**



**SITE SCREENING PLAN**  
**GROUP I STUDY AREAS**

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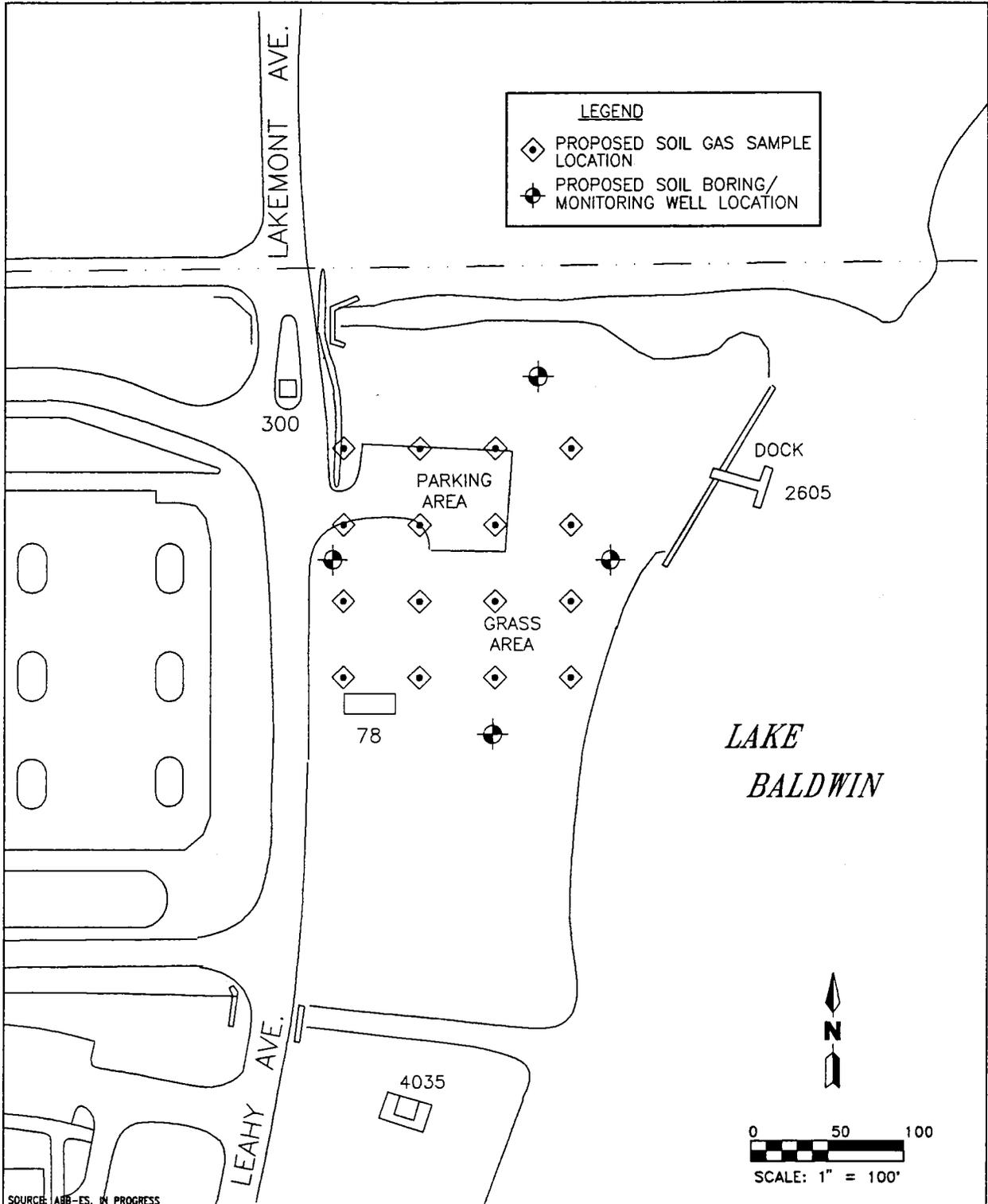


**FIGURE 4-7**  
**PROPOSED GEOPHYSICAL SURVEY**  
**AREA AT UNF-13, FORMER**  
**MOTORBOAT RENTAL/MAINTENANCE**  
**AREA, STUDY AREA 5**



**SITE SCREENING PLAN**  
**GROUP I STUDY AREAS**

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SOURCE: ABB-ES, IN PROGRESS

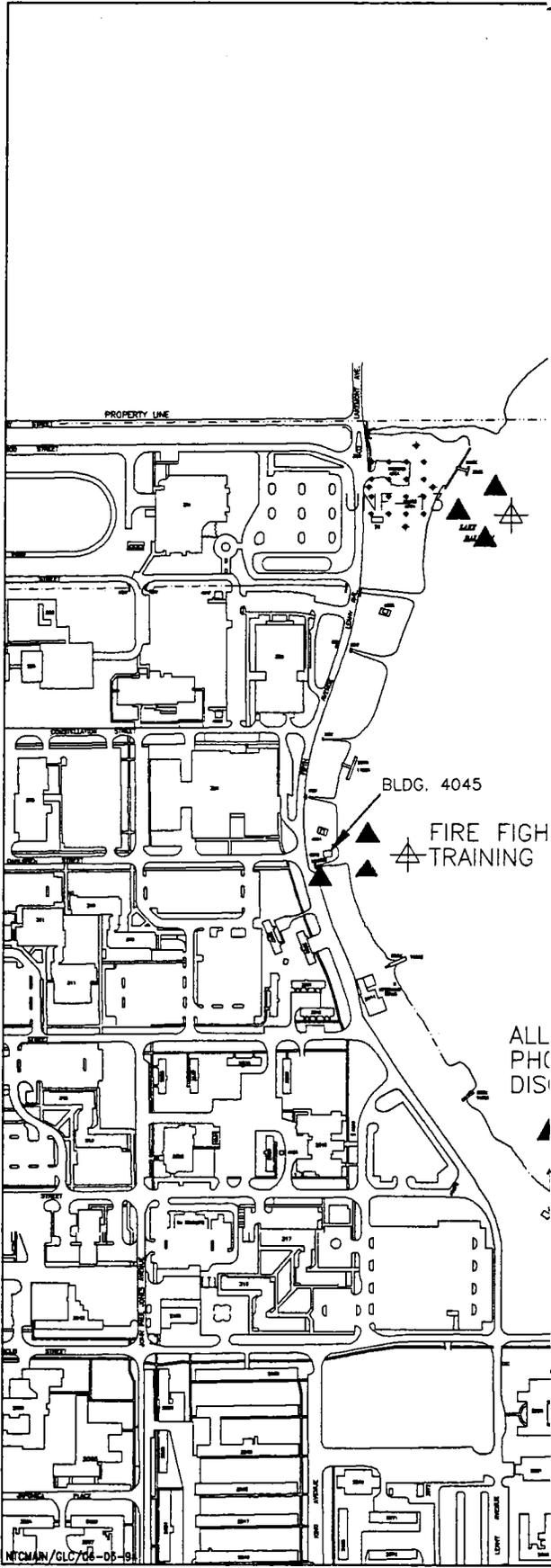
**FIGURE 4-8**  
**PROPOSED SOIL GAS SURVEY**  
**BORING AND MONITORING WELL**  
**LOCATIONS AT UNF-13, FORMER**  
**MOTORBOAT RENTAL/MAINTENANCE**  
**AREA, STUDY AREA 5**

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**SITE SCREENING PLAN**  
**GROUP I STUDY AREAS**

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**LEGEND**

-  PROPOSED SURFACE WATER SAMPLE LOCATION
-  PROPOSED SEDIMENT SAMPLE LOCATION

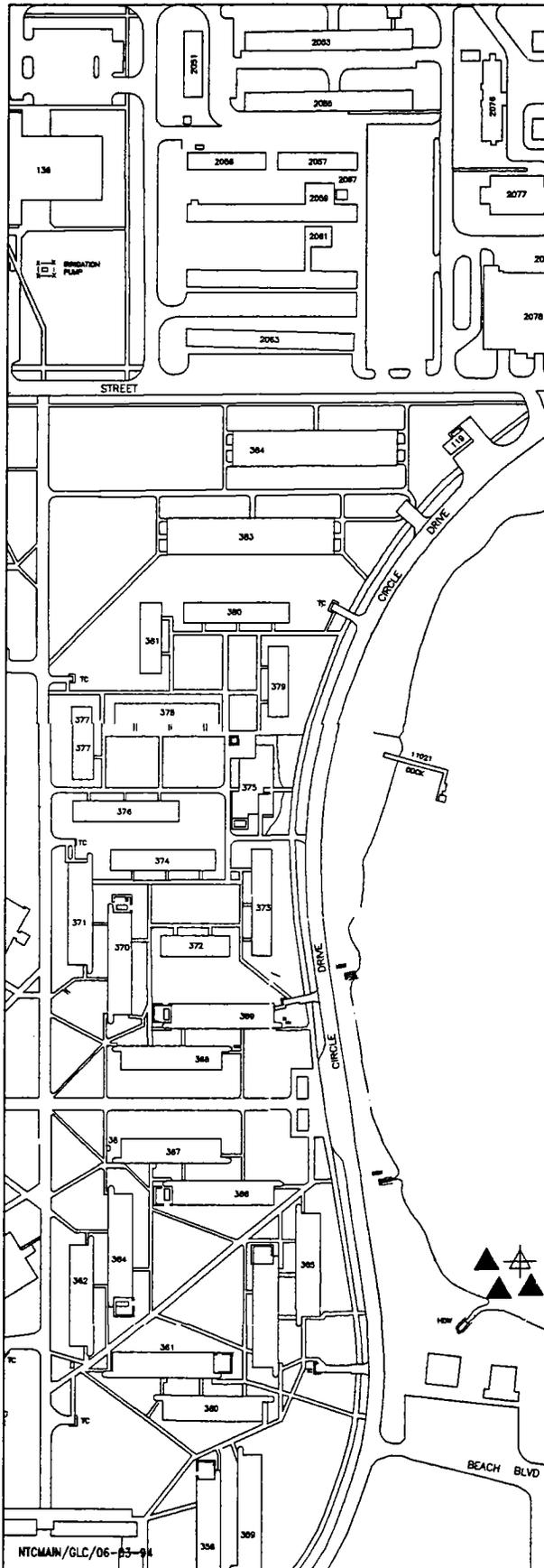
SOURCE: ABB-ES, IN PROGRESS

**FIGURE 4-9  
PROPOSED SURFACE WATER AND  
SEDIMENT SAMPLE LOCATIONS AT  
LAKE BALDWIN, STUDY AREA 6**



**SITE SCREENING PLAN  
GROUP I STUDY AREAS**

**NAVAL TRAINING CENTER  
ORLANDO, FLORIDA**



**LEGEND**

-  PROPOSED SURFACE WATER SAMPLE LOCATION
-  PROPOSED SEDIMENT SAMPLE LOCATION

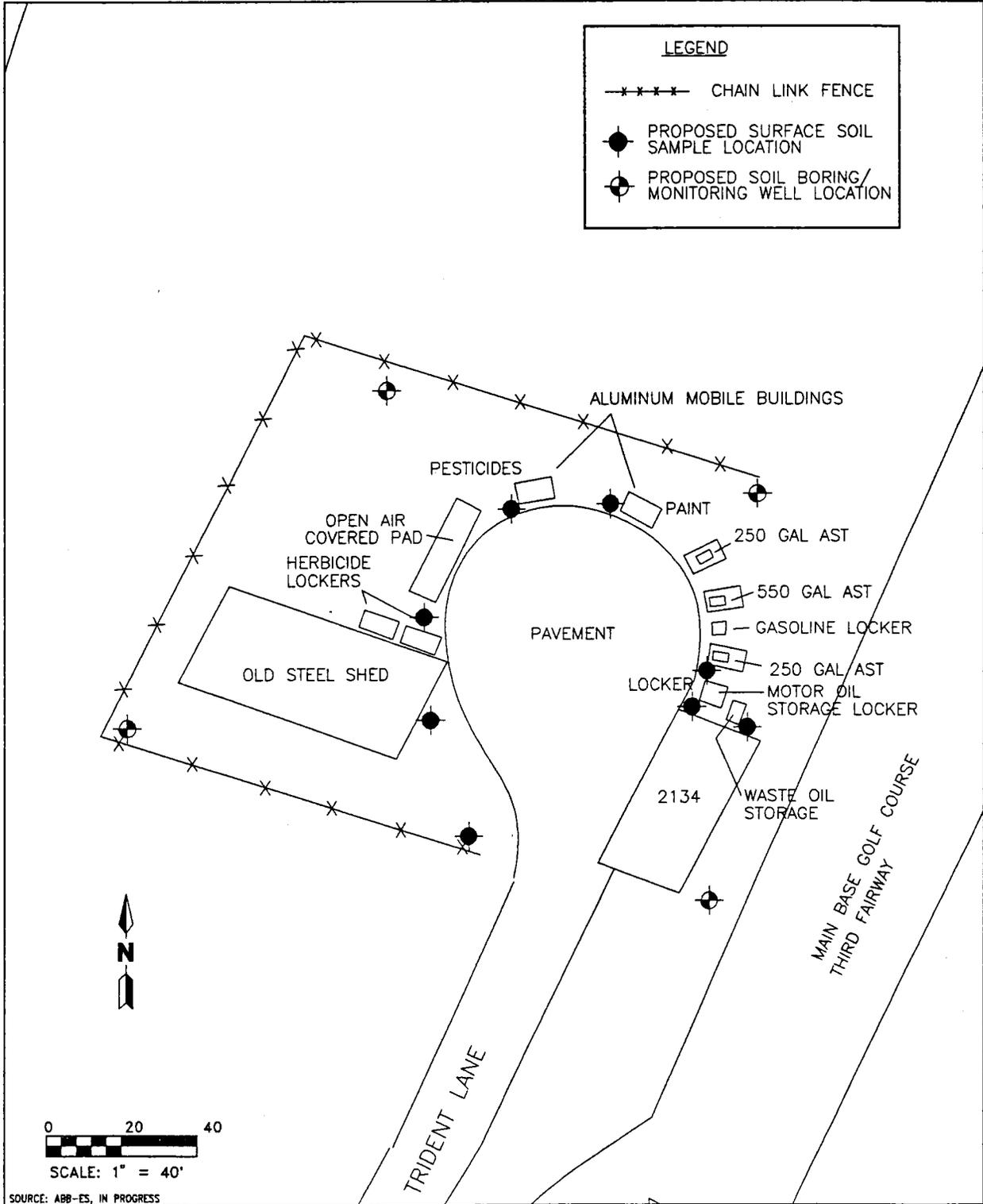
SOURCE: ABB-ES, IN PROGRESS

**FIGURE 4-10  
PROPOSED SURFACE WATER AND  
SEDIMENT SAMPLE LOCATIONS AT  
LAKE SUSANNAH, STUDY AREA 7**



**SITE SCREENING PLAN  
GROUP I STUDY AREAS**

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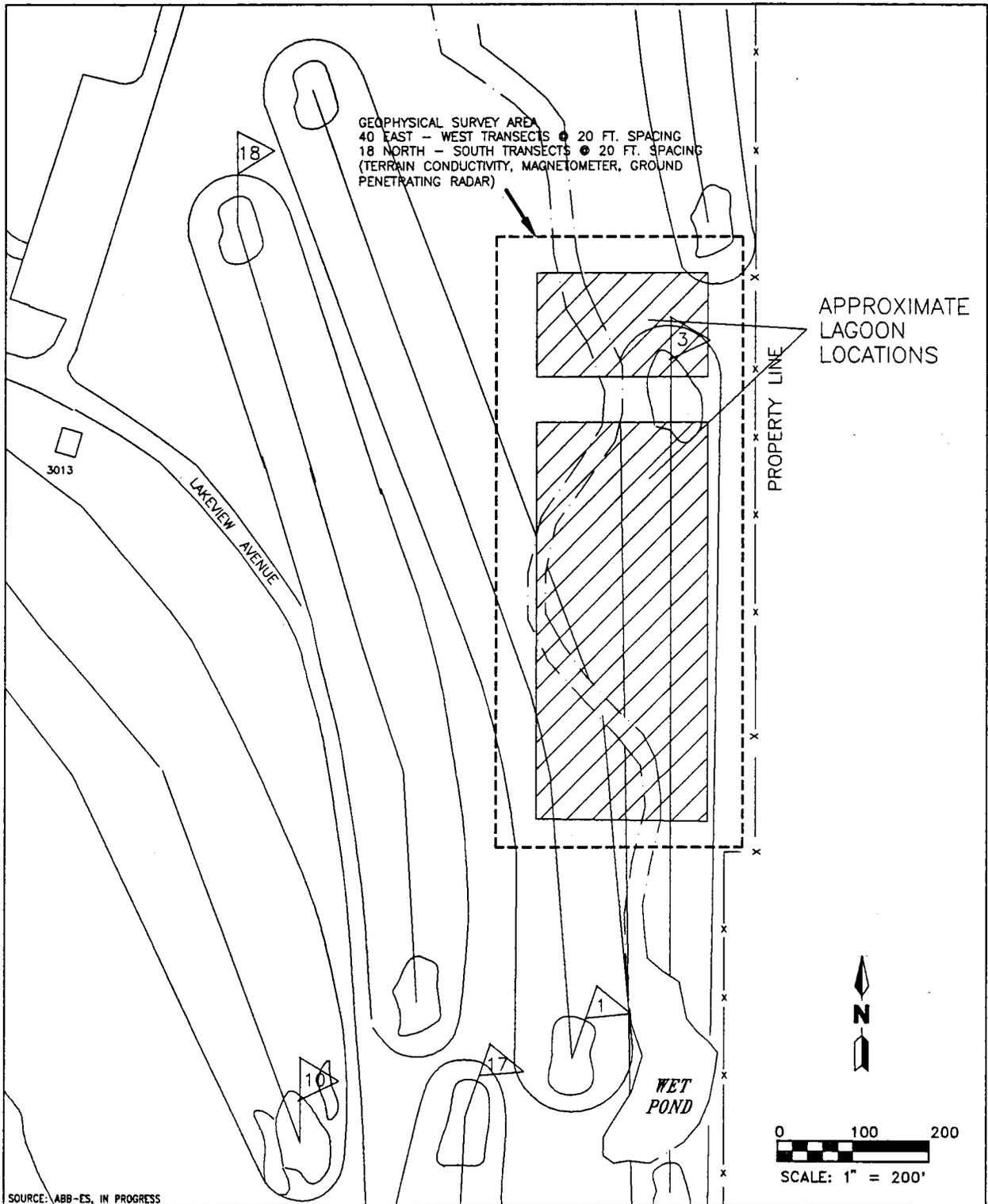


**FIGURE 4-11**  
**PROPOSED SURFACE SOIL, SOIL BORING AND MONITORING WELL LOCATIONS AT BUILDING 2134, GREENSKEEPER STORAGE AREA, STUDY AREA 8**



**SITE SCREENING PLAN  
 GROUP I STUDY AREAS**

**NAVAL TRAINING CENTER  
 ORLANDO, FLORIDA**

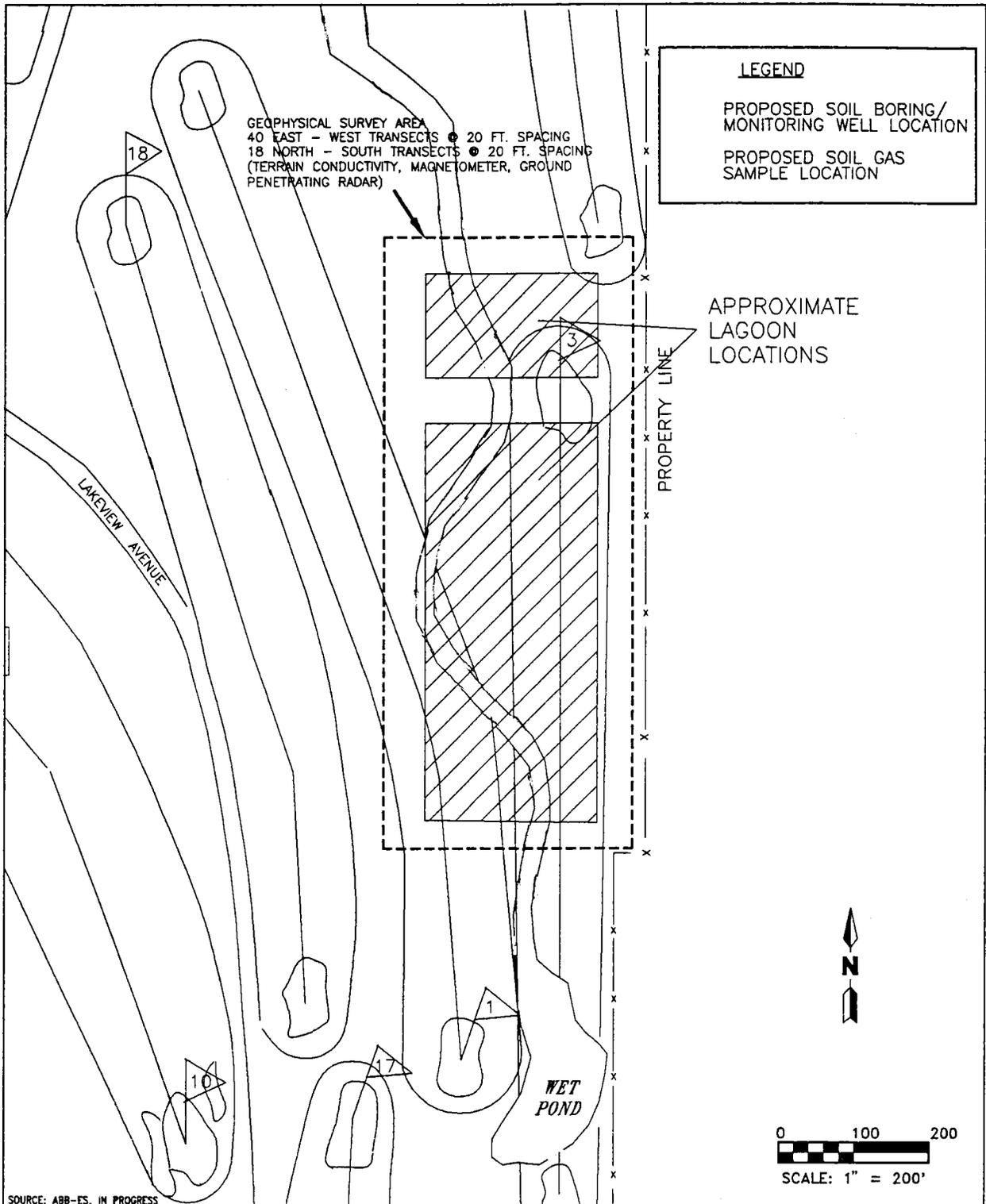


**FIGURE 4-12**  
**PROPOSED GEOPHYSICAL SURVEY**  
**AREA AT UNF-15, FORMER**  
**WASTEWATER TREATMENT PLANT**  
**LAGOONS, STUDY AREA 8**



**SITE SCREENING PLAN**  
**GROUP I STUDY AREAS**

**NAVAL TRAINING CENTER**  
**ORLANDO, FLORIDA**



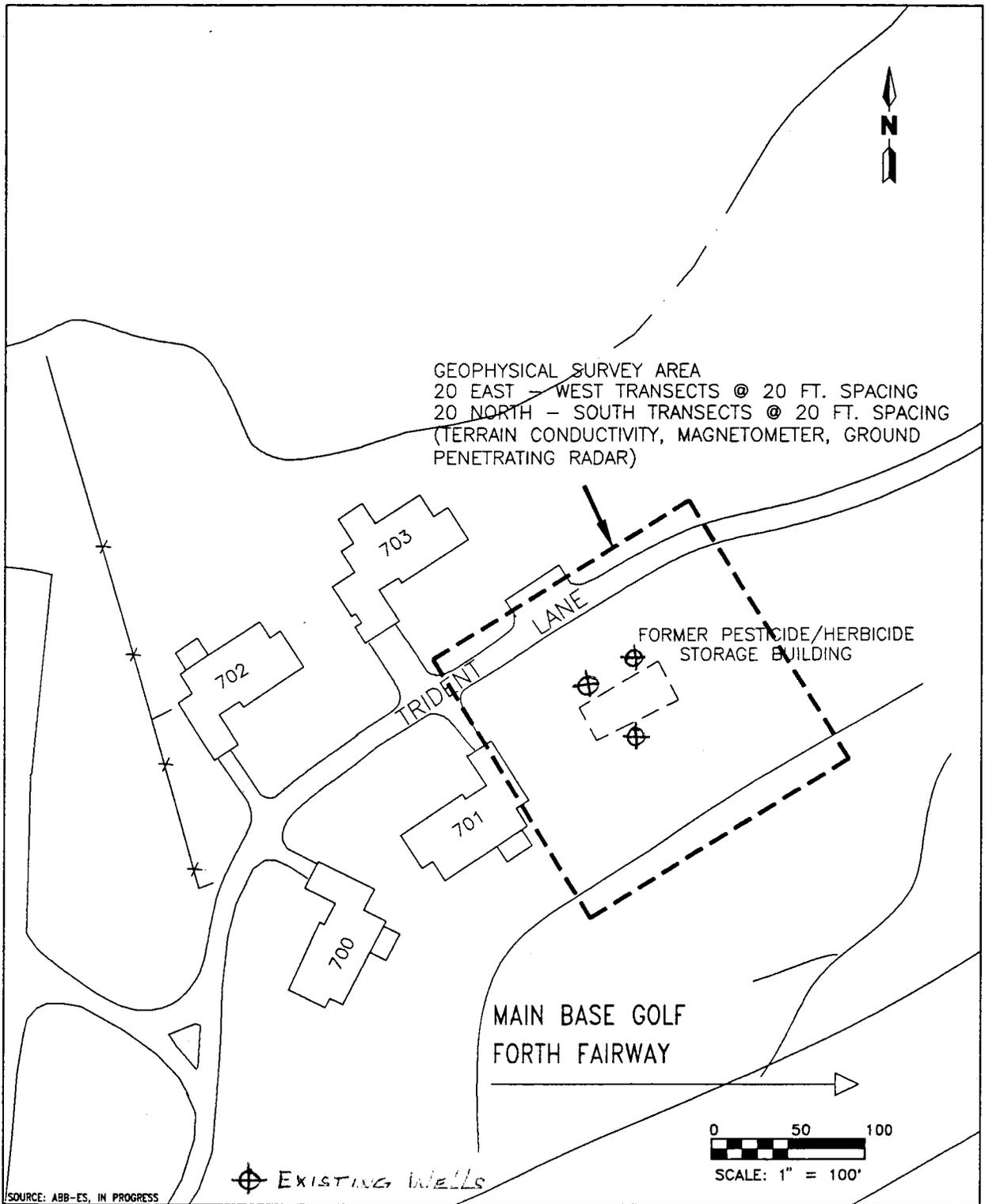
SOURCE: ABB-ES, IN PROGRESS

**FIGURE 4-13**  
**PROPOSED SOIL GAS SURVEY, SOIL BORING AND MONITORING WELL LOCATIONS AT UNF-15, FORMER WASTEWATER TREATMENT PLANT LAGOONS, STUDY AREA 8**



**SITE SCREENING PLAN**  
**GROUP I STUDY AREAS**

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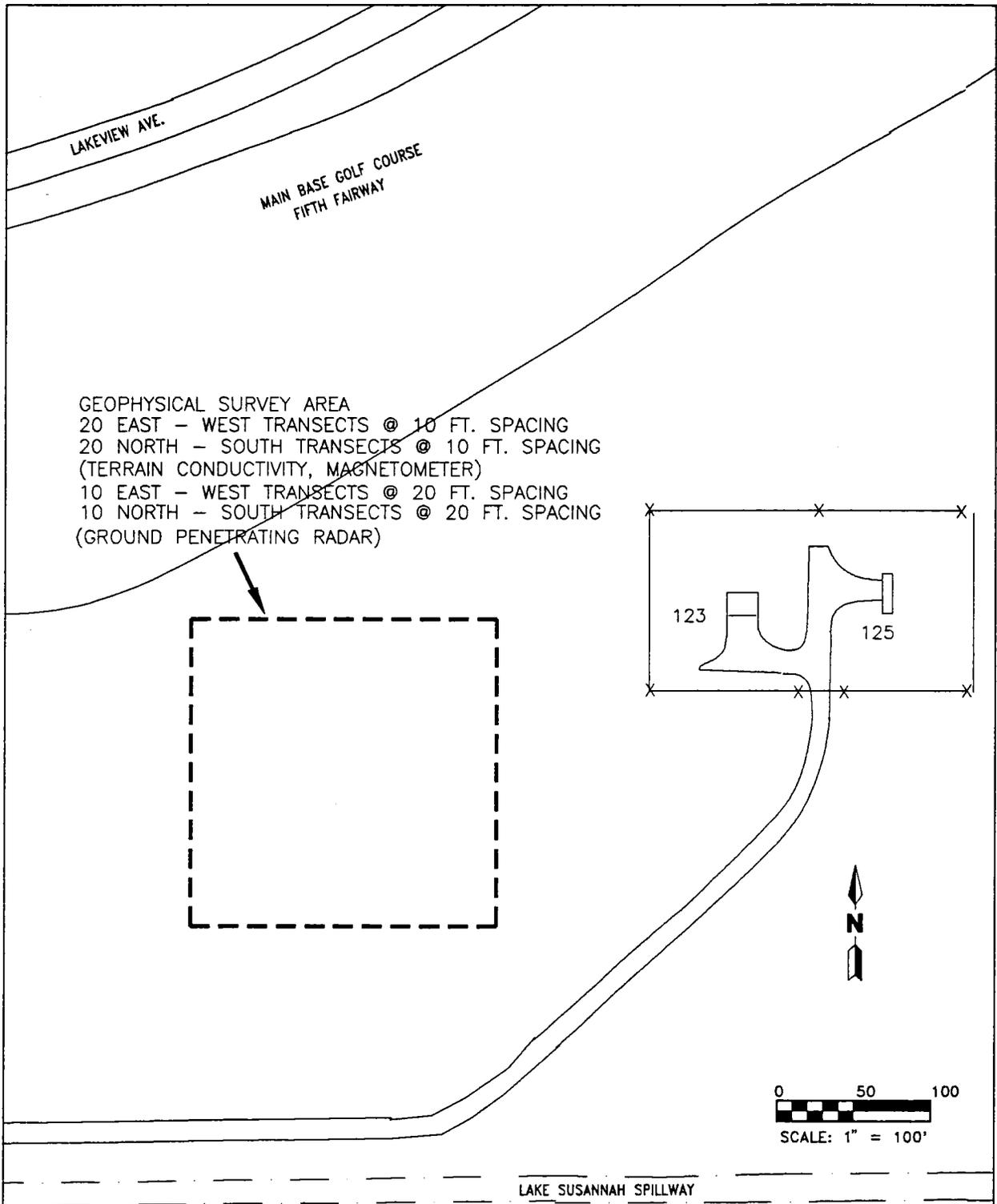


**FIGURE 4-14**  
**PROPOSED GEOPHYSICAL SURVEY AREA AT UNF-14, FORMER PESTICIDE/HERBICIDE STORAGE BUILDING, STUDY AREA 9**



**SITE SCREENING PLAN  
 GROUP I STUDY AREAS**

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SOURCE: ABB-ES, IN PROGRESS

**FIGURE 4-16**  
**PROPOSED GEOPHYSICAL SURVEY**  
**AREA, IAS SITE 4, ALLEGED**  
**YARD WASTE DISPOSAL AREA,**  
**STUDY AREA 10**



**SITE SCREENING PLAN**  
**GROUP I STUDY AREAS**

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