INTERNATIONAL TECHNOLOGY CORPORATION

Mr. Ariu Levi
Alameda Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

September 25, 1989

Dear Mr. Levi:

IT Environmental Service (ITES) has been retained by Mr. Verl Dolsby of Dolsby Hard Chrome, Oakland, California, to provide site assessment and remediation services. ITES has reveiwed a copy of your letter, dated September 5,1989 and on behalf of Mr. Dolsby, we [ITES] submit the following work plan for your review and approval.

Should you have any question regarding this work plan, I may be reached at 415/372-9100.

Sincerely,

Larry Hudson
Project Manager
IT Environmental Services

LH/pg

ltr/6289

PRELIMINARY REPORT
FOR
DOLSBY HARD CHROME
OAKLAND, CALIFORNIA

HISTORY

Dolsby Hard Chrome is a wet chrome plating shop located at 124 Hegenberger Loop in Oakland, California. (vicinity map and site map are attached) The property is almost entirely covered by a single story metal and cinderblock building. The building has been used for electroplating type processes for the past 30 years. The plating processes at the facility utilized a series of wet dip tanks, which were located below ground in secondary concrete containment sumps. The dip tank arrangement and sumps configuration are shown on the attached drawings.

During the month of July 1989, Mr. Dolsby voluntarily suspended electroplating operations and began removal of electroplating solutions and dismantlement of process equipment. After the baths and tanks were removed from the secondary concrete containment the floor of the containment was broken out and removed. During the removal, it was clearly evident to Mr. Dolsby that the wet bath solution had leaked through the concrete. For this reason the concrete and underlying soils were carefully set aside and stockpiled near the containment pit. Mr. Dolsby then contacted a representative of GSX Services of California, who visited the site and collected a composite sample from the stockpiled soil. The sample was immediately submitted to Precision Analytical Laboratory for metals analysis (copy of the analysis results is attached). Based on these results and on Mr. Dolsby's request, a waste profile has been completed with Envirosafe Services in Idaho for Class 1 disposal, and we are awaiting agency approval to proceed.

SCOPE OF WORK

The objective of Dolsby Hard Chrome is to dismantle the entire electroplating process system(s) at the facility and to sell the property in an environmentally sound condition. This will involve the removal and/or disposal of all equipment and the remediation of potential chrome contamination. ITES has prepared a multi-phased work plan to accomplish this objective.

WORK PLAN

Phase I: Remove and dispose of stockpiled soil and concrete and package and dispose remaining solutions and sludges.

ITES will load all presently stockpiled soil and concrete on licensed hazardous waste hauler dump trucks for transport to Envirosafe Services in Idaho. Hazardous waste trained technicians will properly package remaining bath solutions and sludges and remove the rubber liner from the remaining intact wet sump. It is intended at this time that all removed sludges, liquids, and debris will be treated and/or disposed at Envirosafe Services Idaho. All transportation and disposal will be documented by Hazardous Waste Manifests and in accordance with all state and federal regulations.

Phase II Remove remaining process equipment, machinery and non-contaminated debris.

Dolsby personel will remove all remaining process equipment, machinery, etc. All of the process tanks, scrubbers, duct work, mill machines, and other equipment has been, or will be sold to other electroplating companies. This equipment will be checked by ITES prior to shipment to insure that it is acceptable for transport and photographs of each piece of equipment along with a log of its disposition will be kept for future references. All shipment and transportation of this equipment for reuse will be accomplished by Dolsby Hard Chrome or the new owner of the equipment.

All scrap and debris remaining after salvageable equipment removal is complete, will be carefully segregated under the direction of ITES. Non-Hazardous items will be placed in a bin for sanitary land fill disposal. Items that are visibly contaminated or are questionable, will be placed in a hazardous bin for transport to Envirosafe.

Phase III Determine extent of soil contamination, determine impact to groundwater, establish groundwater gradient, and sample building interior.

ITES recognizes the highest potential source for contamination is the concrete containment pit and the still intact wet sump. For this reason, ITES proposes to set up a radial sample pattern around the pit and sump. As illustrated in the attached drawing, several samples will be collected in the bottom of the pit and sumps to determine depth of contamination. Additional soil borings around the pit/sump and to a depth of 9-10 feet will delineate the lateral and vertical extent of contamination. During the soil boring activities, an ITES Field Chemist will collect continuous samples which will be tested for the presence of chromium. The actual depth and placement of borings will be determined on site by evaluating the results of the field test. Once a contamination perimeter has been established by the field tests, duplicate perimeter samples will be sent to Precision Analytical Laboratory in Richmond. These samples will be analyzed for chromium, lead and arsenic. A site map with boring locations and sample results plotted, will then be prepared.

ITES will install three monitoring wells at the site. The proposed location for the three wells is shown on the attached drawing. This placement is based on the suspected groundwater gradient indicated by the area topographic map. The wells will be installed, developed and surveyed. Soil and water samples will be collected and analyzed for CAM METALS and Hexavalent Chrome.

In addition to soil and water samples, ITES also proposes to take 8-10 wipe samples in the ceiling area of the facility to determine if there is any particulate contamination on the internal surfaces of the building. The wipe samples will be analyzed for total Chrome and Hexavalent chrome. Results of these samples will be used to develop the remedial plan (Phase IV).

Phase IV Remedial Actions:

Once the soil boring results and monitoring well results are received, they will be reviewed by an IT Corporation registered Geologists. A remedial action plan for the site will be prepared for agency review and approval. Along with the remedial Action plan, ITES will include copies of all manifests generated at the site, all Certificates of Analysis, Field Analytical logs, Chain of Custodies, and Waste Profiles. We will also provide copies of disposition logs for all equipment and machinery, soil boring logs and monitoring well logs.

1) DEPTH OF SAMPLES AT BOTTOM OF PIT.
2) BORING CUTTINGS, WELL DEVELOPMENT WATER
3) LAB ANALYSIS FOR CR TOT & Cr6 & Pb
4) METHOD FOR FIELD ANALYSIS.
5) DEPTH OF TANK PIT

SUMMARY

IT Environmental Services welcomes the opportunity to meet with you and discuss this work plan in more detail. ITES is prepared to begin work immediately, upon authorization to proceed.

Soil samples at the facility will be collected with a combination hollow stem auger/split spoon sampler, by:

IT Field Analytical Technicians.

The samples will be analyzed at:

Precision Analytical Laboratory
4136 Lakeside Drive,
Richmond, California
California Certification # 211.

The contaminated soils and debris will be transported by:

GSX Services
Martinez, California
EPA ID # CAD000058917

and

Kelling Transportation
Tracy, California EPA ID # CAT080030869

The Class 1 Disposal Facility for soil, concrete, sludges, debris and other hazardous material storage:

Envirosafe Services of Idaho
Grandview, Idaho
EPA # IDD073114654

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DRAWING NUMBER	148014-E
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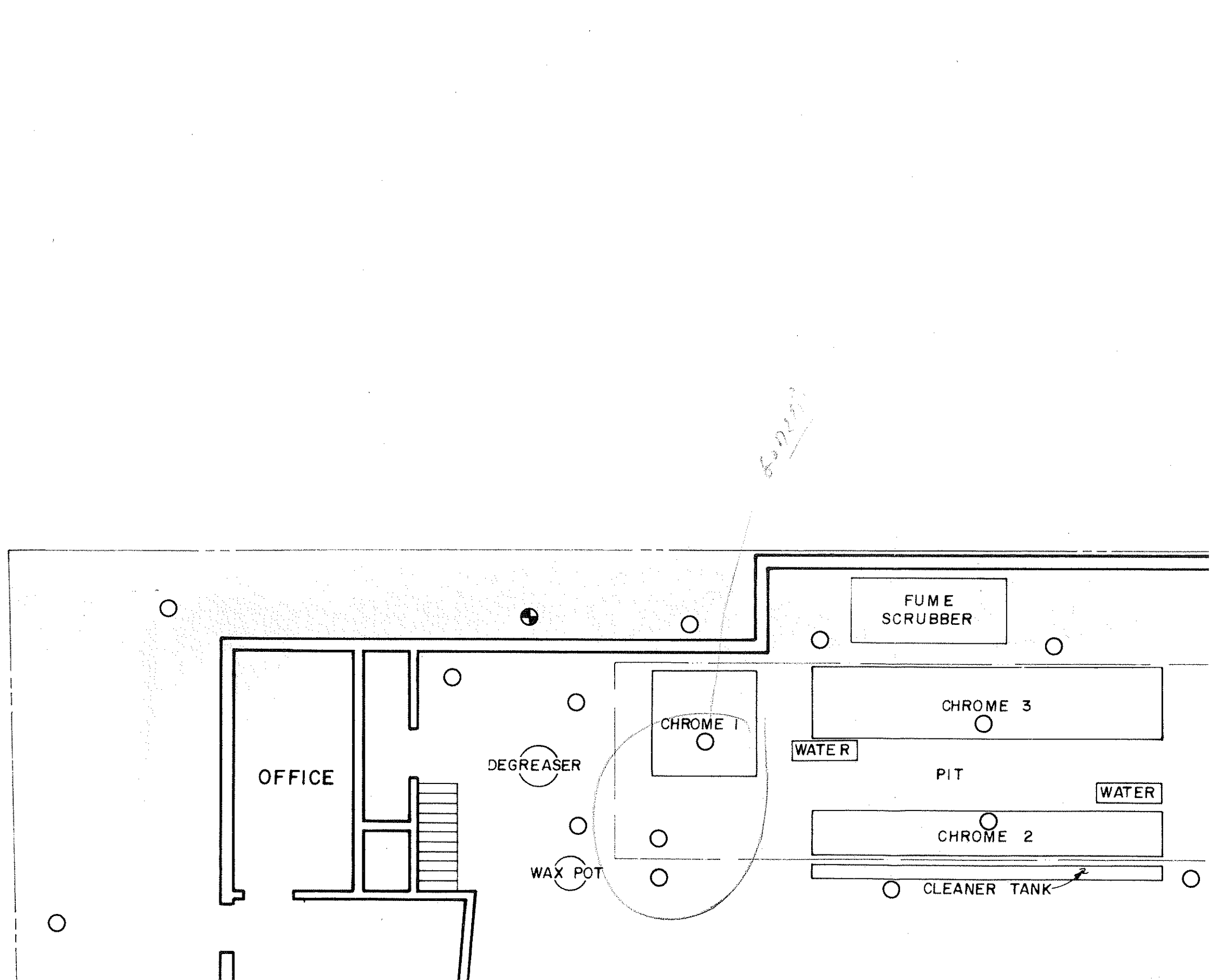
LOOP



DR
E

HEGENBERG

ACETONE TANK

AIR COM

DRIVEWAY

PROPERTY LINE

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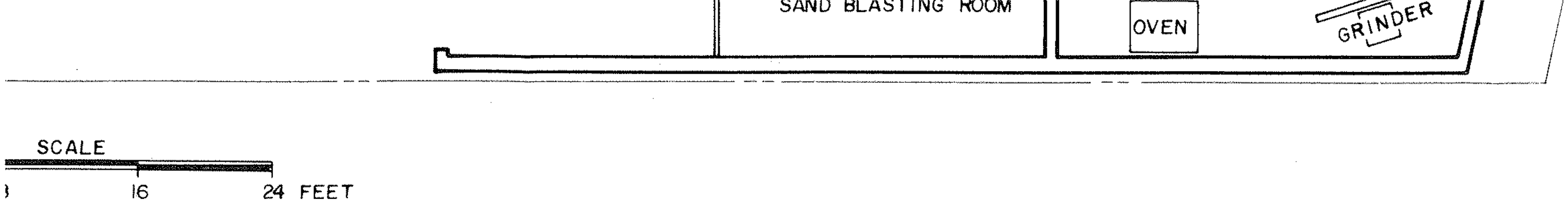
LEGEND:

○ PROPOSED SOIL BORING LOCATIONS

⊕ PROPOSED MONITORING WELL LOCATION



Project #: U552404
Fee Paid $498
Date 9/28/89

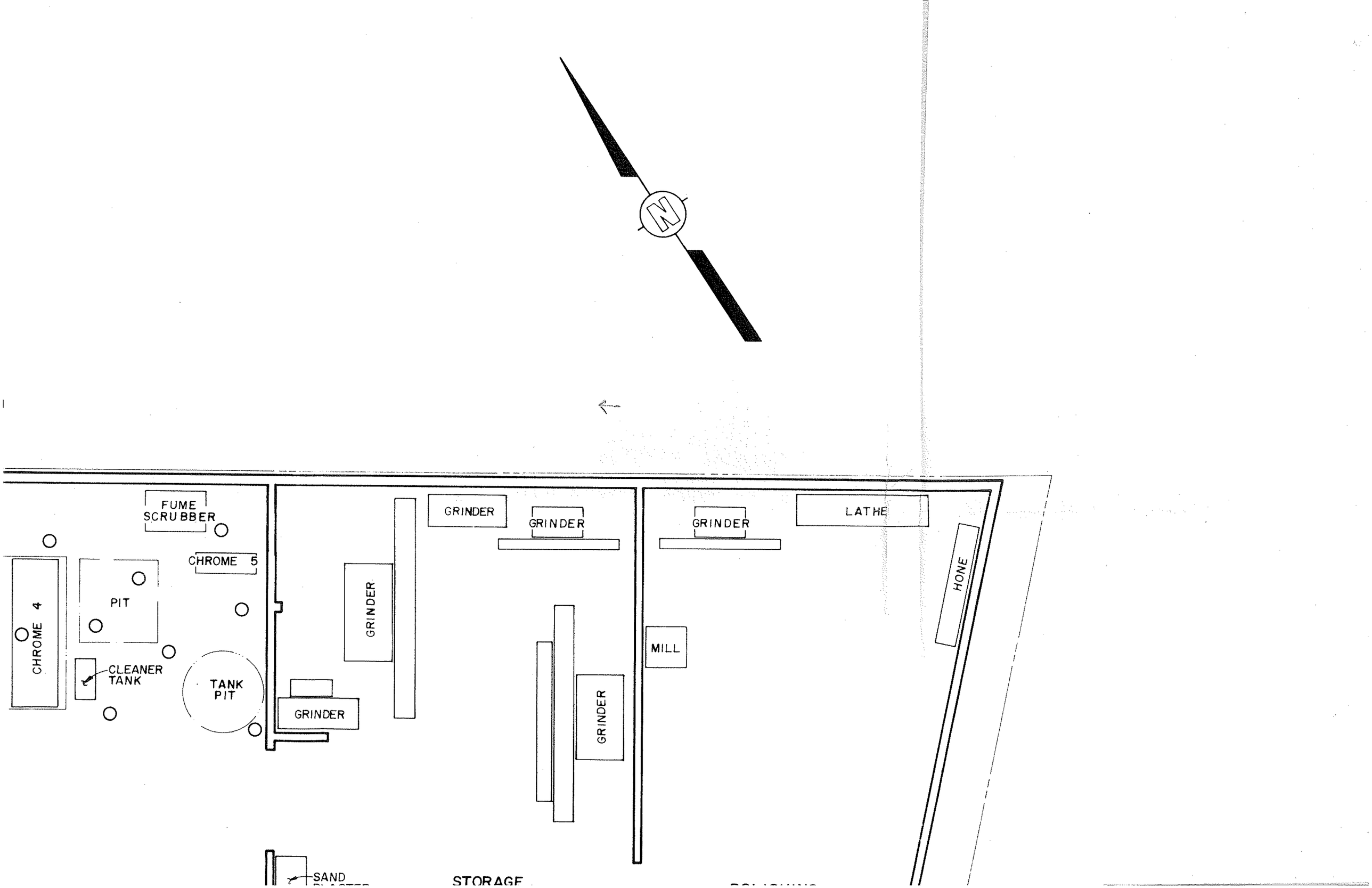
SITE PLAN

For Proposed Sample Locations

PREPARED FOR

124 HEGENBERGER LOOP
OAKLAND, CA.

INTERNATIONAL TECHNOLOGY CORPORATION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FUME SCRUBBER
CHROME 5
CHROME 4
PIT
CLEANER TANK
TANK PIT
GRINDER
GRINDER
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GRINDER
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GRINDER
MILL
LATHE
HONE
SAND
STORAGE