

**ENVIRONMENTAL PROTECTION PLAN
TEMPORARY STORAGE AND TREATMENT AREA
NAVAL AIR STATION
ALAMEDA, CALIFORNIA**

**Contract No. N62474-93-D-2151
Delivery Order No. 0043**

Submitted to:

Department of the Navy
Engineering Field Activity West
Naval Facilities Engineering Command
900 Commodore Drive
San Bruno, California 94066-2402

Submitted by:

IT Corporation
4585 Pacheco Boulevard
Martinez, California 94553

Revision 1

November 1995

Issued to: Wayne Coffey

Date: 11-1-95

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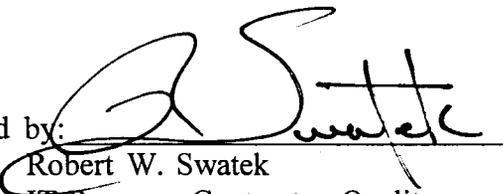
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Approved by: 
Robert W. Swatek
IT Program Contractor Quality
Control Manager

Date: 11-01-95

Approved by: 
Valerie Crooks
Delivery Order Project Manager

Date: 11/01/95

Approved by: 
Louis E. Stout
IT Program Manager

Date: 11/01/95

DOCUMENT RECEIPT ACKNOWLEDGMENT

THE FOLLOWING CONTROLLED COPY

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DOCUMENT REVISION: 1

NOTE: PLEASE DESTROY REVISION 0 IN ITS ENTIRETY AND REPLACE IT WITH THE ATTACHED REVISION 1.

ISSUED TO AND LOCATION: WAYNE COFFER, ROICC, SAN FRANCISCO BAY AREA, P.O. BOX 23300, OAKLAND, CALIFORNIA 94623

I HAVE RECEIVED THE ABOVE LISTED DOCUMENTS

Name (Printed): WAYNE COFFER

Name (Signed): _____

Company Name/Office: _____

Date Received: _____

PLEASE COMPLETE THIS RECEIPT AND RETURN TO:

IT EFA-WEST RAC ADMINISTRATIVE ASSISTANT
4585 PACHECO BLVD
MARTINEZ, CA 94553

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1

Title
Photographic Documentation

1.0 Introduction

This Environmental Protection Plan has been specifically developed to meet the requirements of performing work in a manner that protects the environment during the contract period. Environmental Protection, for the purpose of this project is defined as maintaining the environment in its natural state to the greatest extent possible during project construction, and the enhancement of the appearance of disturbed sites in its final condition.

To accomplish environmental protection, consideration will be given to air, water, and land resources including management of visual aesthetics, natural, historical, and archaeological resources; noise; and other solid waste, as well as other pollutants. The IT Corporation (IT) project manager will implement the Environmental Protection Plan so that all work is performed in a manner that minimizes the pollution of air, water, and land resources, and complies with federal, state, and local regulations.

1.1 Project Scope of Work

The project work consists of the design and construction of a Temporary Storage and Treatment Area (TSTA). A soil storage area is being developed to store soils removed from IR Site 15.

1.2 Conformance with Laws, Regulations, and Permits

The project superintendent will verify that all work is performed in accordance with all applicable, relevant, and appropriate requirements which will include, but not be restricted to the following laws, rules, and regulations.

- 40 CFR Part 110, 112, 113, and 114 - discharge of oil
- 40 CFR Part 50 - air quality standards
- 40 CFR Part 261 - identification and listing of hazardous waste
- 40 CFR Part 264 - standards for owners and operators of Haz Waste Treatment, storage, and disposal facilities
- Title 26, Division 22 - corrective action management units and temporary facilities

- Title 26, Division 23 - construction, operation, and maintenance of remediation waste storage or treatment units

2.0 Preconstruction Condition Survey

On September 27, 1995, a preconstruction condition survey was performed by IT Corporation representatives. The survey was performed to determine preconstruction conditions of landscape features, ground cover, shrubs and trees in and immediately adjacent to the work areas, storage areas, and access routes. The intention of this survey was to document prework site conditions and to identify potential environmentally sensitive areas that might be adversely impacted by construction activities. Photographic documentation of the preconstruction site conditions was collected during the survey. The photos are included in Attachment 1.

The site of the planned TSTA is located in the former Naval Aviation Depot (NADEP) Farm. The site is bordered to the north by the Oakland Inner Harbor, to the south by the right-of-way of Perimeter Road, to the west by an underground fuel storage tank farm, and to the west by a wood frame building. The location of the site is shown on Figure 1.

The area formerly housed different operations including welding, carpentry, sheetmetal work, sandblasting, and equipment painting. All above-ground structures have been removed from the site. Currently, the site is partially paved with asphaltic pavement and contains several concrete pads. The unpaved areas of the site are covered with loose fill material and minor construction debris. Remaining site facilities are limited to utilities which include: two electrical transformers, a sanitary sewer lift station, fire hydrants, and storm water drains which discharge into the Oakland Inner Harbor. Chain link fencing is present on the northern, eastern, and a portion of the western boundaries of the site. Details of the site features are shown on the attached Site Plan (Figure 2).

3.0 Protection of Environmental Resources

3.1 Protection of Air Resources

All construction activities associated with this project will be conducted in a manner to minimize the release of airborne particulates within or outside of the project boundary. Realtime air monitoring will be employed to verify the effectiveness of the program.

3.1.1 Air Monitoring

Air Monitoring will be conducted according to provisions of the air monitoring program described in the project Health and Safety Plan (H&S Plan). This includes real-time air monitoring to assure that site workers and off-site receptors will not be exposed to harmful levels of airborne toxic chemicals in particulate form.

Real-time monitoring will be performed prior to commencement of work in order to establish the baseline conditions existing at the site. IT will provide monitoring during the active cleanup operations both on site near each active work zone, adjacent to soil staging and loading operations, and at perimeter air monitoring locations.

IT will initiate mitigative action at any time that monitored levels are found to be in excess of the respirable dust action level as defined in the health and safety plan. IT's health and safety officer and the ROICC will consider any departures from the general background levels and determine the required mitigative action. All real-time information will be recorded daily on data sheets which will be provided to the ROICC.

3.1.2 Dust, Particulates, and Odor Control

Construction activities associated with this project may result in release of respirable particulates. The work procedure will be designed to control, prevent, and minimize these releases. All work will be performed in accordance with applicable California and federal air pollution regulations, as cited earlier.

Control measures will be implemented for dust particles, aerosols, and gaseous by-products from all construction activities including during weekends, holidays, and hours when work is not in progress. If real-time monitoring for these constituents indicate levels greater than the action levels at the downwind site perimeter, control and response activities will be

initiated for abatement of the on-site source of the air pollution as detailed in the H&S Plan.

Control of fugitive particulates will involve containerization of waste materials and dust control measures such as watering down dry or barren areas and roadways. In addition, soil, decontamination sediment, concrete, asphalt, and other debris will be stored in roll-off containers or covered stockpiles while awaiting final disposal off site.

Procedures will be developed for decontamination of all vehicles leaving the exclusion zone. All vehicles will be inspected for general cleanliness of frame and tires and will be approved by the health and safety officer. No vehicle or roll-off will leave the site unless they are in a broom clean condition, free of dirt on the tailgates, axles, wheels, etc. Vehicles that cannot be broom cleaned will be washed.

IT will transport and dispose of materials off site in accordance with the Work Plan approved by the ROICC. IT will keep all streets used for entering or existing the job site free of excavated material, debris, and any foreign material resulting from construction operations.

Odors will be controlled on site by containerization of any wastes being held on site awaiting disposal. Odor suppressants will be initiated to control odors, if necessary.

3.1.3 Burning

Burning will not be permitted on the job site.

3.1.4 Noise

IT will keep construction activities under surveillance and control to minimize damage to the environment by noise. IT will comply with all OSHA and applicable local noise standards.

3.2 Protection of Water Resources

All construction activities for this project will be conducted in a manner to minimize the impact to water resources within and outside the project boundaries. The main area of concern with regards to water resources is run-off into the Oakland Inner Harbor.

3.2.1 Surface and Groundwater Protection

All project activities will be conducted in compliance with appropriate federal, state, and local laws regarding potential and actual contamination of surface and groundwater and in a manner to prevent the discharge of pollutants into the adjacent waterway. Contaminated wastewater will be collected, stored, and disposed of as described in Section 4.0. All on-site toilet facilities will be of the portable type and disposal will be to an off-site facility.

3.2.2 Noncontaminated Runoff

IT will control the rate of runoff from the construction site to retard and divert runoff away from the Oakland Inner Harbor and from storm drains which discharge directly to the waterway. The materials used will include, but not be limited to, diversion ditches, benches, berms, silt fences, straw or hay bales, burlap, and filter fabric.

3.2.3 Containment Area Water and Leachate Control

Precipitation, decontamination water, and leachates will be collected and stored on site to allow for analysis and appropriate off-site treatment and disposal. Treatment areas and haul routes within the site will be covered with either concrete or asphalt pavement and isolated with berms and curbs to prevent run-off from reaching storm drain structures during periods of activity at the site. Water which accumulates in these areas will be collected in sumps and transferred to on-site storage tanks.

3.3 Protection of Land Resources

All construction activities associated with this project will be conducted in a manner to minimize the impact to land resources within and outside of the project boundaries. In particular, damage to existing trees, shrubs, and ground cover will be minimized to the extent possible. All project activities will be coordinated with the ROICC in order to minimize the impact to land resources.

3.3.1 Monuments and Markers

IT personnel will identify and protect all monuments and markers prior to any construction activity at the site. Location of these monuments and markers will be reviewed with the ROICC at the preconstruction site visit aforementioned. IT will convey to its site personnel the locations of these monuments and markers and the purpose of marking and protecting these items.

3.3.2 Historical and Archaeological Finds

Any and all items discovered during construction which may have an apparent historical or archaeological interest will be carefully preserved in an undisturbed state. The project superintendent will immediately report the find to the ROICC so that proper authorities may be notified.

3.4 Soil Erosion and Sediment Control

A fabric silt fence will be installed around the perimeter at any loose stockpiled backfill material on site. Silt fence is judged to be adequate to control runoff of any silt laden storm water from such small areas. All erosion control will be placed quickly to minimize the duration of exposure of unprotected soils. If necessary, diversion ditches or dikes will be installed and regrading conducted to control sediment migration. Soil will be compacted and graded to minimize erosion. Any installed erosion and sediment control measures will be properly maintained throughout the duration of the project.

4.0 Materials Handling

Wastes, both contaminated and noncontaminated, may be generated by activities associated with project activities. These wastes will be properly managed to mitigate environmental impacts and comply with applicable regulations. All disposal activities will be conducted in accordance with the requirements of the contract document.

4.1 Waste Disposal

During construction activities (prior to storage of contaminated soils), it is not expected that contaminated wastes will be encountered. Excess soil, asphalt and concrete pavement, and debris generated during site preparation will be transported for off-site disposal at an appropriate recycling or landfill facility. Any stockpiles of debris required to be maintained on site will be covered to prevent dust emissions.

If site monitoring during construction indicates that contaminated materials have been encountered, the ROICC will be notified of the conditions observed. Appropriate sampling and analysis will be performed to evaluate the contaminants and to determine appropriate removal and disposal actions. Excavated contaminated soils will be stored in roll-off bins prior to off-site disposal.

Decontamination water, leachate and contaminated run-off will be collected in on-site storage tanks. The accumulated water will be analyzed for contaminants of concern and appropriate disposal methods will be determined. It is assumed that if water is determined to be non-hazardous, existing treatment facilities at the NAS can be utilized for disposal. It is not anticipated that hazardous wastes will be generated during the project. However, if generated, hazardous waste will be stored in containers in accordance with 49 CFR 178. Hazardous waste will be identified in accordance with 40 CFR 261 and 40 CFR 262 and disposed of in accordance with 40 CFR 263 and 40 CFR 265.

4.2 Waste Disposal Facilities

IT will be responsible for locating disposal facilities for both hazardous and nonhazardous materials. IT will provide the names and addresses of the recommended off-site disposal facilities for selection by the Remediation Project Manager (RPM) of EFA-WEST and the Base Environmental Compliance Officer.

4.2.1 Waste Disposal Permits

IT will submit copies of analytical test results to the disposal facility in order to obtain disposal permits.

4.3 Record Keeping

IT will provide all documentation required by the disposal facilities. The documents will include the following:

- Copies of completed Waste Manifests or Bills of Lading for each shipment will be maintained by IT and provided as records to the ROICC,
- IT will obtain and prepare manifest forms, obtain waste code numbers, and complete the waste shipment records as required for verifying the waste type and quantity of each load transported off-site. The manifest form will be verified by the ROICC and copies of each manifest retained by the ROICC following shipment. Any manifest discrepancies will be reported immediately to the ROICC and resolved by IT,
- The Government will provide a hazardous waste generator identification number for use on the manifest,

- IT will notify the ROICC and Base Environmental Office at least 48 hours in advance of the request of signing the manifest,
- The Base Environmental Compliance Officer (Randy Cate) will sign the hazardous waste manifest on behalf of the generator,
- Waste is to be transported from the site only to those facilities listed on the manifest,
- IT will originate, maintain, and provide the ROICC with copies of waste shipment manifest records for all waste materials transported off-site. IT will verify the nature and quantity of wastes shipped on each load. The manifest forms and records shall be consistent with the requirements of RCRA, DOT regulations, and state requirements,
- IT will provide the ROICC with written documentation verifying receipt of each load at the designated treatment or disposal facility and verification of proper treatment or disposal,
- IT will notify the ROICC immediately if IT fails to receive "Notification of Receipt" of any waste shipment within a predetermined time frame approved by the ROICC. IT will undertake whatever actions are necessary to determine the status of the shipment and remedy the situation.

5.0 Noncompliance/Corrective Action_____

If IT is notified that it is in noncompliance with a federal, state, or local environmental regulation, IT will investigate the nature of the noncompliance notification and will respond, if appropriate, with a proposed corrective action. Once the proposed corrective action is approved, IT will implement this corrective action and notify the appropriate parties when the corrective action is completed. After the noncompliant situation has been eliminated, the project manager will send written notification to the ROICC of the results of the corrective action.

6.0 Training of Personnel in Environmental Cleanup_____

IT will train personnel in all phases of environmental protection and every on-site worker will have successfully completed OSHA's 40-hour Hazardous Waste Operations and Emergency Response Standard (29 CFR 1910.120) training course prior to work. The training includes methods of detecting and avoiding pollution, familiarization with pollution

standards (both statutory and contractual), and installation of care of facilities and equipment, including instruments required for monitoring purposes to ensure adequate and continuous environmental pollution control. IT will submit evidence of training to the ROICC as part of the H&S Plan.

7.0 Post Construction Cleanup

Upon project completion and subject to instruction by the ROICC, IT will perform the final site cleanup which will include the following:

- Decontamination of all contractor equipment and materials within the exclusion and contamination reduction zones and removal from site,
- Collection and disposal of all contractor generated contaminated material, debris, and rubbish,
- Removal of support area facilities,
- Removal of excess stockpile and construction materials,
- Removal of equipment decontamination pads and disposal at an approved off-site facility,
- Removal of temporary fences and signs installed under this contract,
- Mechanical broom sweeping of all work areas and haul routes,

DRAWING NUMBER
764368-A1

CHECKED BY
11/01/95

APPROVED BY
11/01/95

T.R.S.
10-16-95

DRAWN BY

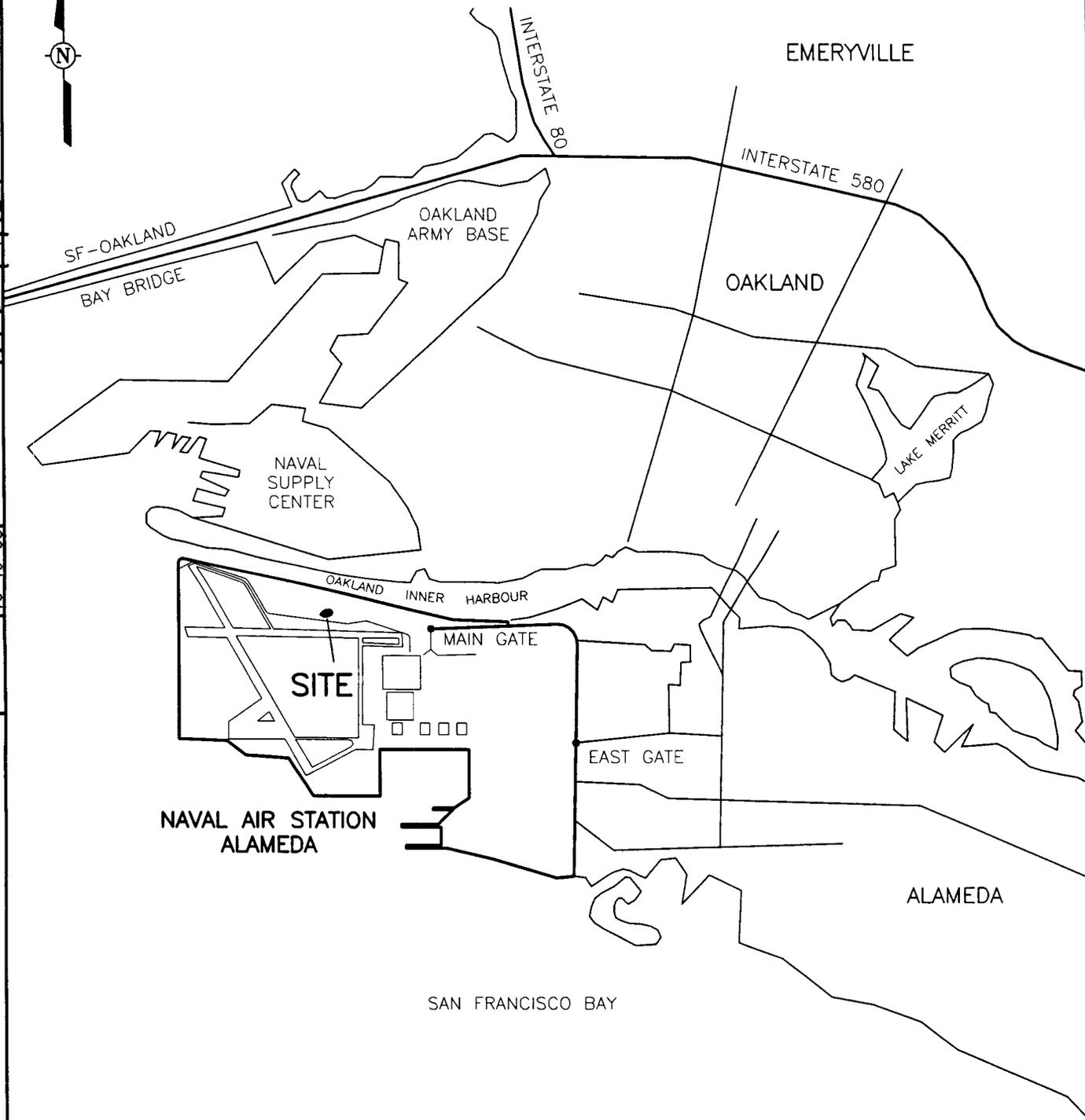
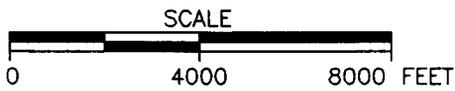


FIGURE 1
DELIVERY ORDER 43
LOCATION MAP OF
TEMPORARY STORAGE AND
TREATMENT AREA

NAVAL AIR STATION
ALAMEDA, CALIFORNIA



INTERNATIONAL
TECHNOLOGY
CORPORATION

OAKLAND INNER HARBOUR

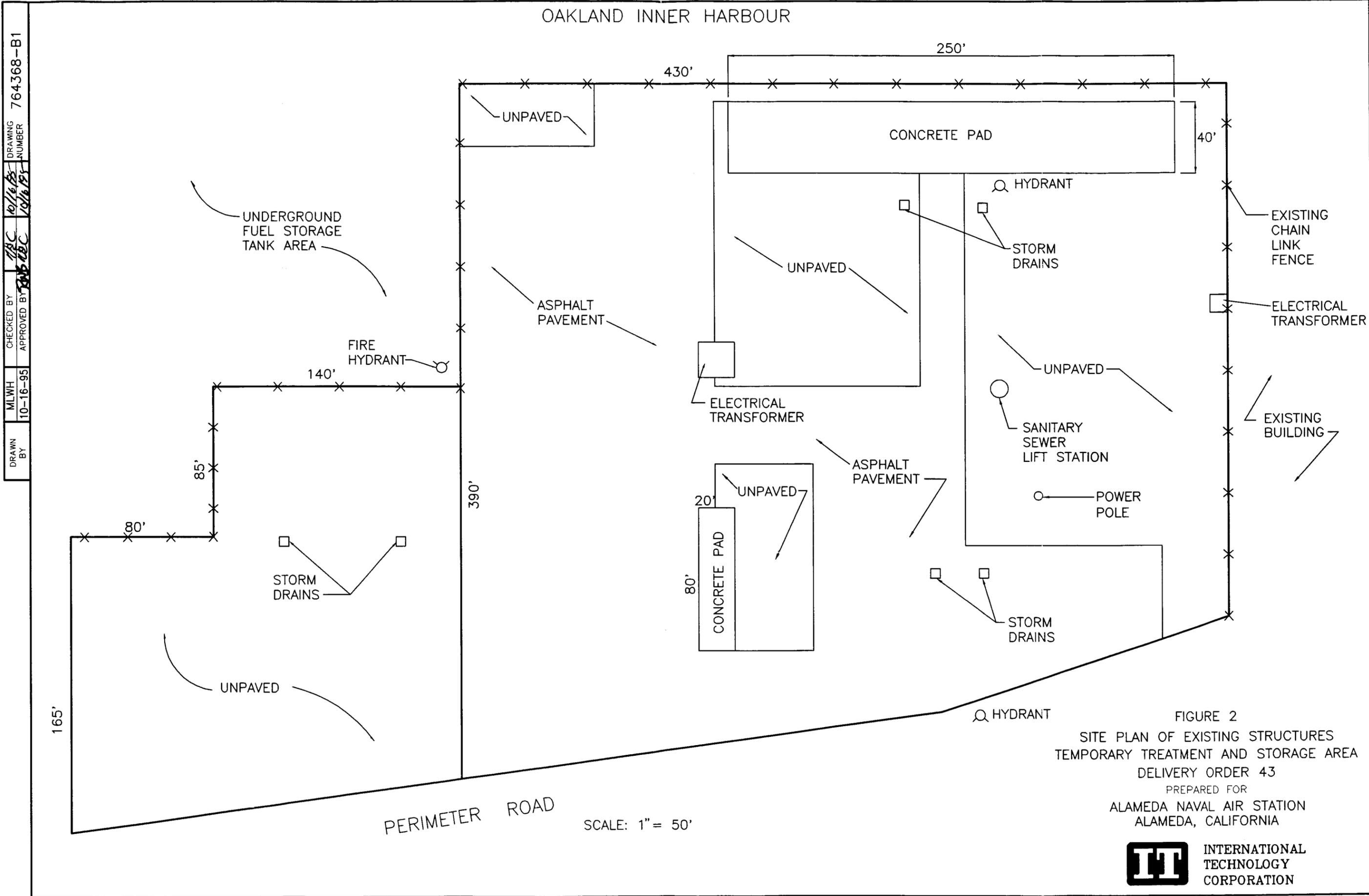


FIGURE 2
 SITE PLAN OF EXISTING STRUCTURES
 TEMPORARY TREATMENT AND STORAGE AREA
 DELIVERY ORDER 43
 PREPARED FOR
 ALAMEDA NAVAL AIR STATION
 ALAMEDA, CALIFORNIA



SCALE: 1" = 50'

DRAWN BY: MLWH 10-16-95
 CHECKED BY: TAC
 APPROVED BY: TAC
 DRAWING NUMBER: 764368-B1

OAKLAND INNER HARBOUR

1 10/30/95 T.R.S. REVISED SOIL STORAGE AREA
 DRAWN BY MLWH 0-26-95
 CHECKED BY 1/9C 11/01/95
 APPROVED BY 1/9C 11/01/95
 DRAWING NUMBER 764368-B5

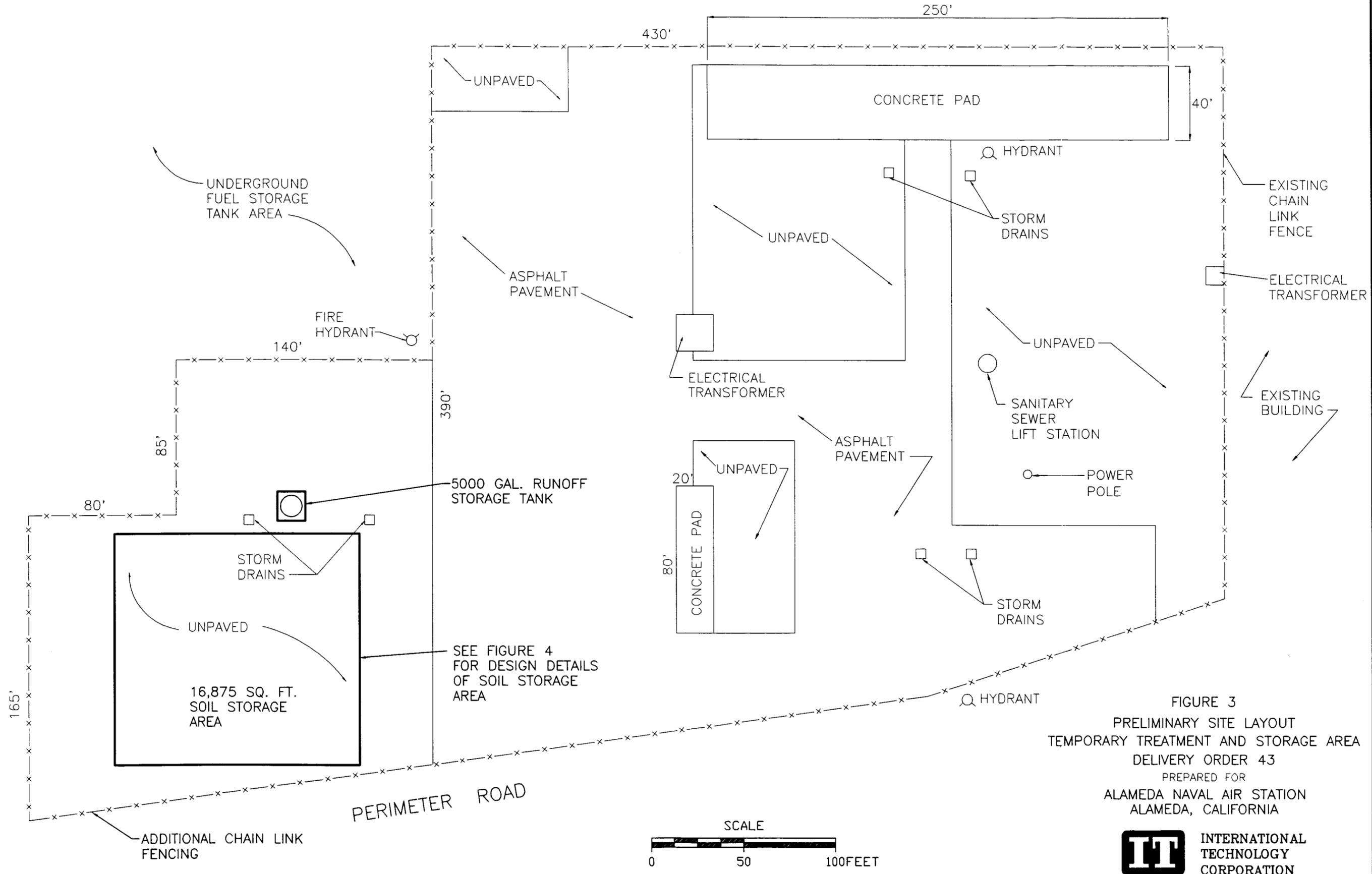
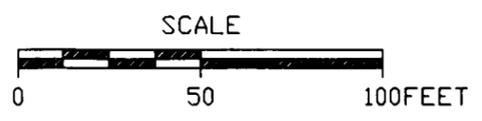


FIGURE 3
 PRELIMINARY SITE LAYOUT
 TEMPORARY TREATMENT AND STORAGE AREA
 DELIVERY ORDER 43
 PREPARED FOR
 ALAMEDA NAVAL AIR STATION
 ALAMEDA, CALIFORNIA



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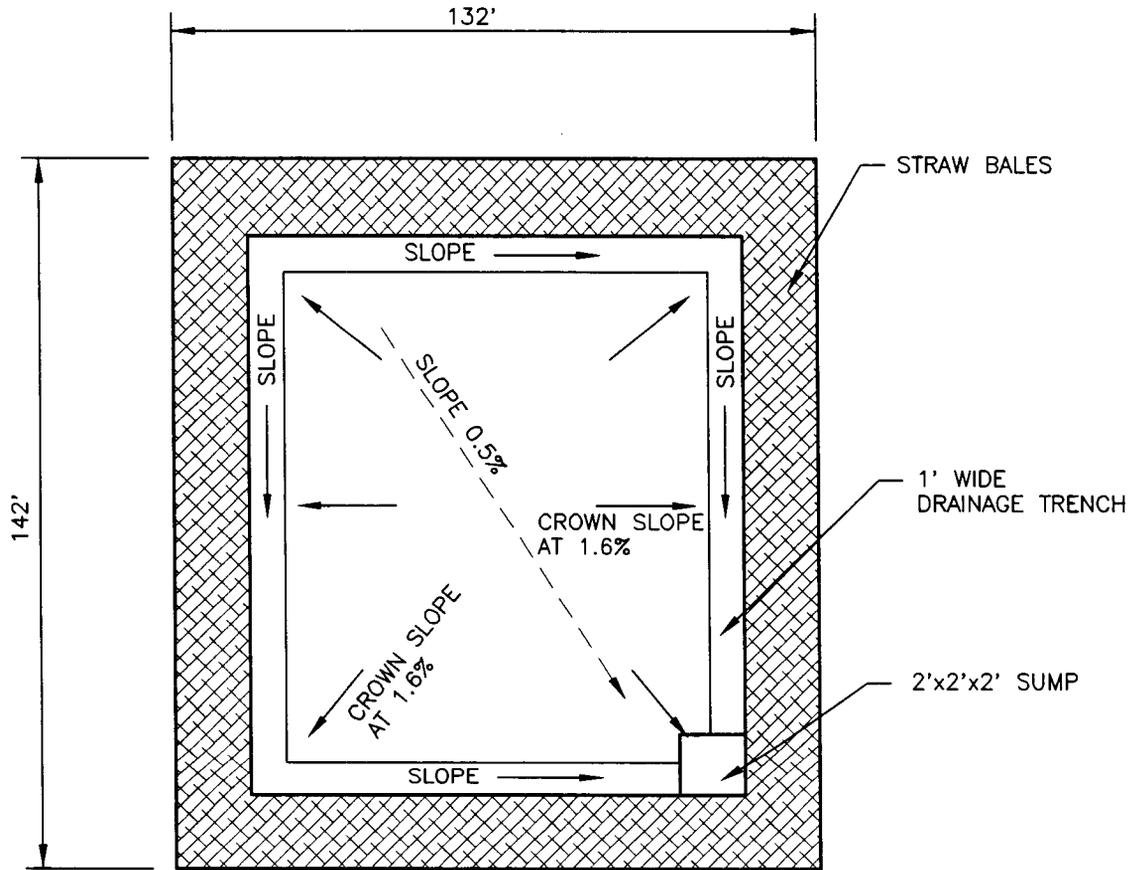
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APPROVED BY *KWS 11/01/95*

T.R.S. 10-30-95

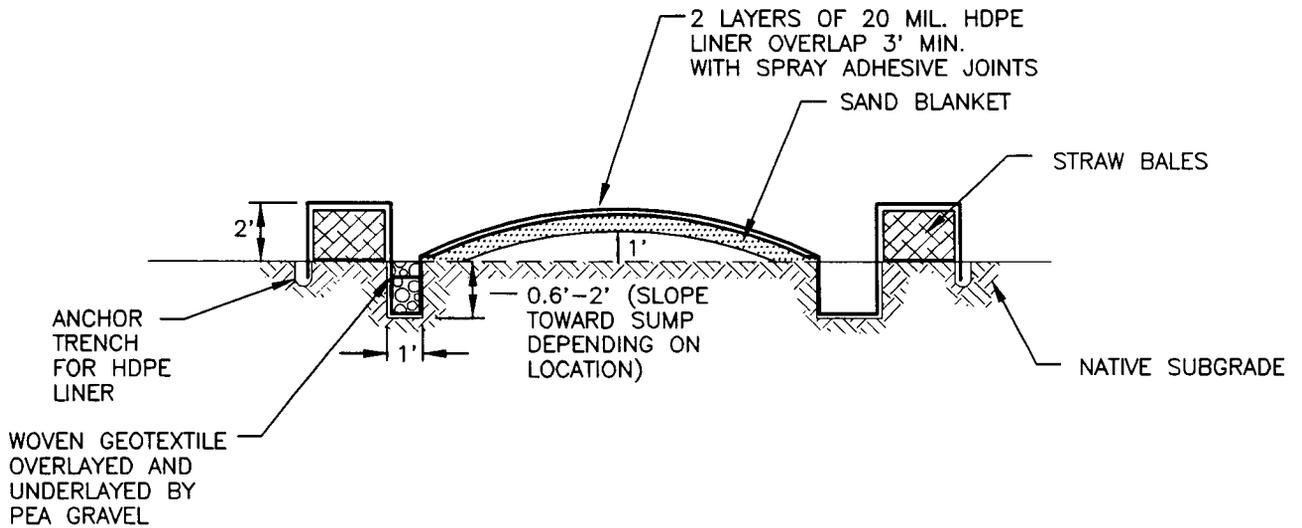
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10-30-95

10-30-95



STORAGE AREA PLAN



STORAGE AREA CROSS SECTION

NOT TO SCALE

FIGURE 4
DELIVERY ORDER 43
TEMPORARY STORAGE AND
TREATMENT AREA

PREPARED FOR

NAVAL AIR STATION
ALAMEDA, CALIFORNIA



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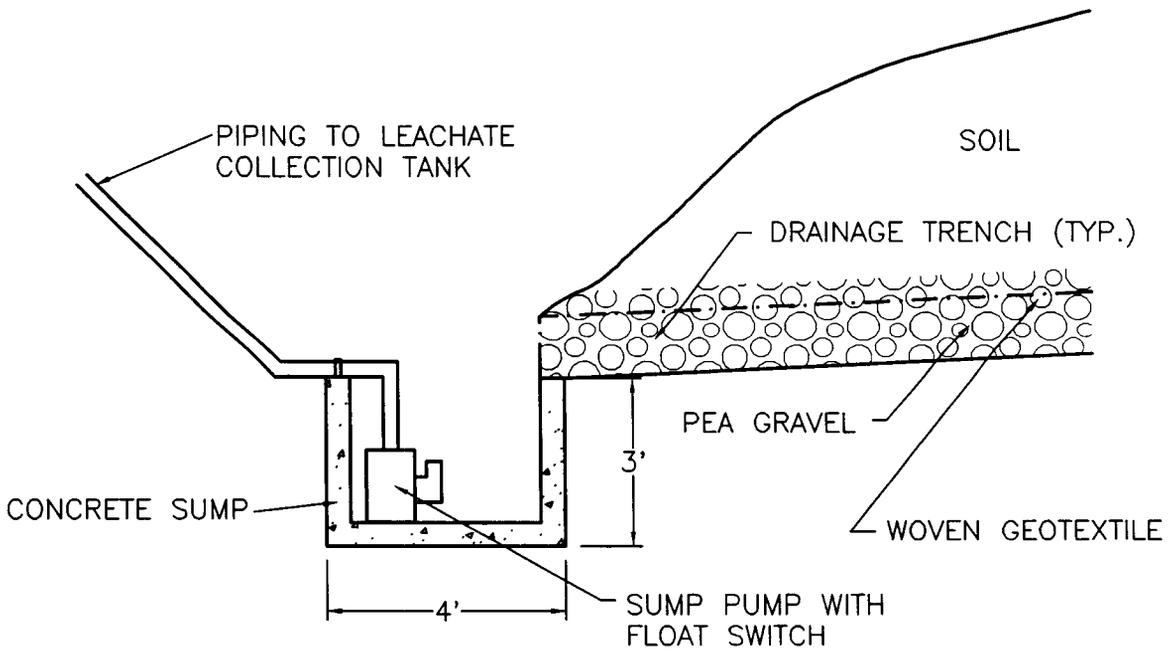
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CHECKED BY APPROVED BY

SUZ 10-16-95

DRAWN BY

1 10/27/95 T.R.S. REMOVED CROSS SECTION, ADD DRAINAGE TRENCH



LEACHATE COLLECTION SUMP DETAIL

NTS

FIGURE 5
DELIVERY ORDER 43
TEMPORARY STORAGE AND
TREATMENT AREA

NAVAL AIR STATION
ALAMEDA, CALIFORNIA

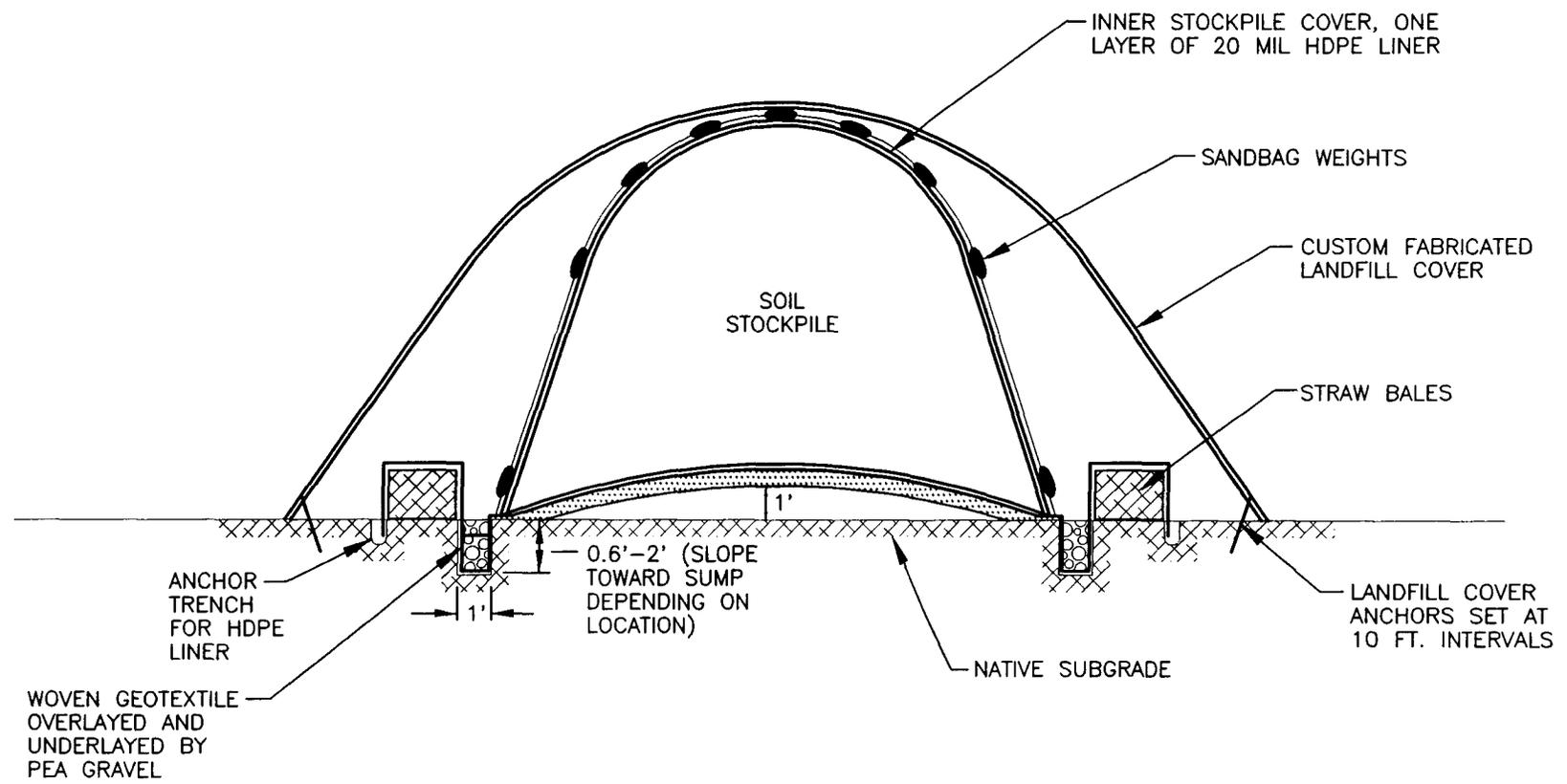


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764368-A3



STOCKPILE COVER CROSS SECTION

NOT TO SCALE

FIGURE 6
DELIVERY ORDER 43
TEMPORARY STORAGE AND
TREATMENT AREA
PREPARED FOR
NAVAL AIR STATION
ALAMEDA, CALIFORNIA



ATTACHMENT 1

PHOTOGRAPHIC DOCUMENTATION

ENVIRONMENTAL PROTECTION PLAN
TEMPORARY STORAGE AND TREATMENT AREA

THE ABOVE IDENTIFIED ATTACHMENT IS NOT
AVAILABLE.

EXTENSIVE RESEARCH WAS PERFORMED BY
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ATTACHMENT. THIS PAGE HAS BEEN INSERTED
AS A PLACEHOLDER AND WILL BE REPLACED
SHOULD THE MISSING ITEM BE LOCATED.

QUESTIONS MAY BE DIRECTED TO:

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RECORDS MANAGEMENT SPECIALIST
NAVAL FACILITIES ENGINEERING COMMAND
SOUTHWEST
1220 PACIFIC HIGHWAY
SAN DIEGO, CA 92132

TELEPHONE: (619) 532-3676