

3.05 - 1/20/94 - 00365

WORK PLAN

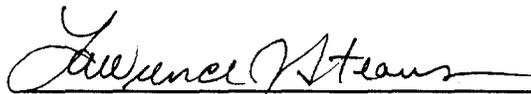
BUILDING 121 REMEDIATION
U.S. NAVAL STATION ROOSEVELT ROADS
PUERTO RICO

Prepared for:

Department of the Navy Atlantic Division
Naval Facilities Engineering Command
Norfolk, Virginia
LANTDIV RAC Contract No. N62470-93-D-3032

Prepared by:

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20 January 1994
OHM Project No. 15591

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1.0 PURPOSE AND WORK DESCRIPTION

1.1 PURPOSE

OHM Remediation Services Corp. (OHM), a subsidiary of OHM Corporation, is contracted by the U.S. Department of the Navy (LANTDIV) to provide remediation of Building 121 at U.S. Naval Station Roosevelt Roads, Cieba, Puerto Rico.

The objective of this Work Plan (WP) is to present the procedures, organization, and responsibilities for implementing the remediation of Building No. 121 at the U.S. Naval Station Roosevelt Roads, Cieba, Puerto Rico, in compliance with NAVFAC Specification No. 05-93-3199, dated 20 October 1993, and with Addendum 1 to that specification dated 29 October 1993.

1.2 WORK DESCRIPTION

The scope of work for the remediation of Building 121 generally includes: preparation of various pre-construction, construction, and post-construction plans and submittals; attendance and participation at pre-construction and various other meetings; mobilization and demobilization; site preparation; cleaning the interior surfaces of Building 121; various sampling and analyses for air, soil, water, and concrete media; removing a portion of the concrete from the surface of the building floor; excavating contaminated soil outside the building; transportation and disposal of generated hazardous and non-hazardous wastes; erosion and sediment control; health and safety control; quality control; site restoration; and incidental work.

2.0 ORGANIZATION AND RESPONSIBILITIES

2.1 ORGANIZATION

The project is organized as shown on Figure 1.

2.2 RESPONSIBILITIES

The responsibilities of the program manager, project manager, project superintendent, QC manager, certified industrial hygienist, and site health and safety officer are as provided in the Basic Contract: Section C, Part 1.3.

The project superintendent is responsible for assuring that on-site work is prosecuted in accordance with this WP and the referenced appendices and attachments.

3.0 ON-SITE ACTIVITIES

3.1 MOBILIZATION

OHM Remediation Services Corp. (OHM), a subsidiary of OHM Corporation, will mobilize the remediation crew from our offices in Pittsburgh, Pennsylvania, and Trenton, New Jersey. Upon arrival in San Juan, the crew will proceed to the local police station in Cieba to apply for good conduct certificates and receive receipt. The receipt will be presented at U.S. Naval Station Roosevelt Roads to obtain a base pass. The crew will then report to the site and commence site setup.

3.2 SITE SETUP

The crew will clear and grub an area for the office trailer and the generator, an area for the decontamination pad, and an equipment laydown area. Refer to Figure 2 for details. At this time, the work zones will be delineated. The generator and office trailer will be brought in and connected, and the decontamination pad constructed. The fence across the east end of the building will be dismantled. The doorway in the east end of the building will be sealed approximately 4 inches up from the floor of the frame using lumber and silicone caulk.

3.3 PRE-REMEDIAL SAMPLING

Prior to commencement of remediation activities, samples must be taken of borrow source soils and excavation area soils. The samples will be collected and analyzed according to the Field Sampling and Analysis Plan (FSAP).

3.4 SOIL REMEDIATION

If the analysis of the soil samples taken from the grid shows levels in excess of the action levels in Table 1 of the FSAP, the soil will be excavated to a depth of 12 inches, the excavated soil will be placed in covered intermodal boxes, and the boxes staged to await final disposition. Prior to the commencement of excavation, silt fence will be installed around the excavation area as required by the Erosion and Sedimentation Control Plan. Upon completion of the excavation, the sampling grid will be re-established and the excavation area resampled as given in the FSAP. Upon verification of clean soil, and with the Contracting Officer's approval, the in-place density of the subgrade will be tested as described in the FSAP. The area will be backfilled with imported fill material that had been previously approved by the Contracting Officer. The backfill will be placed in two lifts and compacted with a vibratory plate compactor and tested for compaction according to the FSAP. The soil will be prepared and revegetated in accordance with the Erosion and Sedimentation Control Plan.

3.5 BUILDING REMEDIATION

After constructing a temporary containment within the building to allow for the collection of cleaning waters, the crew will wash and scrub the floor with a detergent and water solution. The wash water will be collected and pumped into drums for storage. The floor will be rinsed with fresh water and this water will also be collected and pumped into drums for storage. Composite samples of both the wash and rinse water will be collected as detailed in the FSAP and analyzed for the compounds in Table 1 of the specifications. The crew will then perform three complete cycles of high-pressure washing and sampling to include the following:

- Clean all interior surfaces using high-pressure water and detergent solution
- Containerize the wash water and collect a composite sample for analysis
- Rinse the entire building interior
- Containerize the rinse water and collect a composite sample for analysis
- Collect wipe samples after each pressure washing cycle as specified in the FSAP
- Analyze the wash, rinse, and wipe samples obtained after the final pressure wash as specified in the FSAP.

After completing the three cycles of pressure washing and wipe sampling, as outlined above, OHM will collect concrete chip samples from all interior building surfaces to include floor, walls, and ceiling, as detailed in the FSAP. These samples will be analyzed using the Toxicity Characteristic Leachate Procedure (TCLP) for the compounds included in Table 2 of the FSAP.

Based on the analytical results of the wipe samples, and if determined by the Contracting Officer to be necessary, OHM will remove concrete from the surface of the floor utilizing a scabber system with vacuum recovery capability. The material that is removed will be placed in drums and staged with the rest of the material to await final disposition per the Waste Transportation and Disposal Plan.

3.6 DECONTAMINATION PROCEDURES

As noted in the discussion of the site setup activities, a decontamination pad will be constructed in the approximate location delineated on Figure 2. Decontamination activities will be carried out as discussed in the Equipment Decontamination Plan.

3.7 SITE TEARDOWN

Upon completion of remediation activities, the site will be dismantled. Procedures for removal of the decontamination pad are found in the Equipment Decontamination Plan. The office trailer will be disconnected from the generator and all facilities prepared for demobilization.

3.8 DEMOBILIZATION

All equipment except the intermodal boxes used to transport hazardous waste will be demobilized prior to the crew's departure. The intermodal boxes will remain on site until the waste is approved for disposal. The status of these boxes is discussed in the Waste Transportation and Disposal Plan.

FIGURES

PLOT SCALE: 1" = 1"

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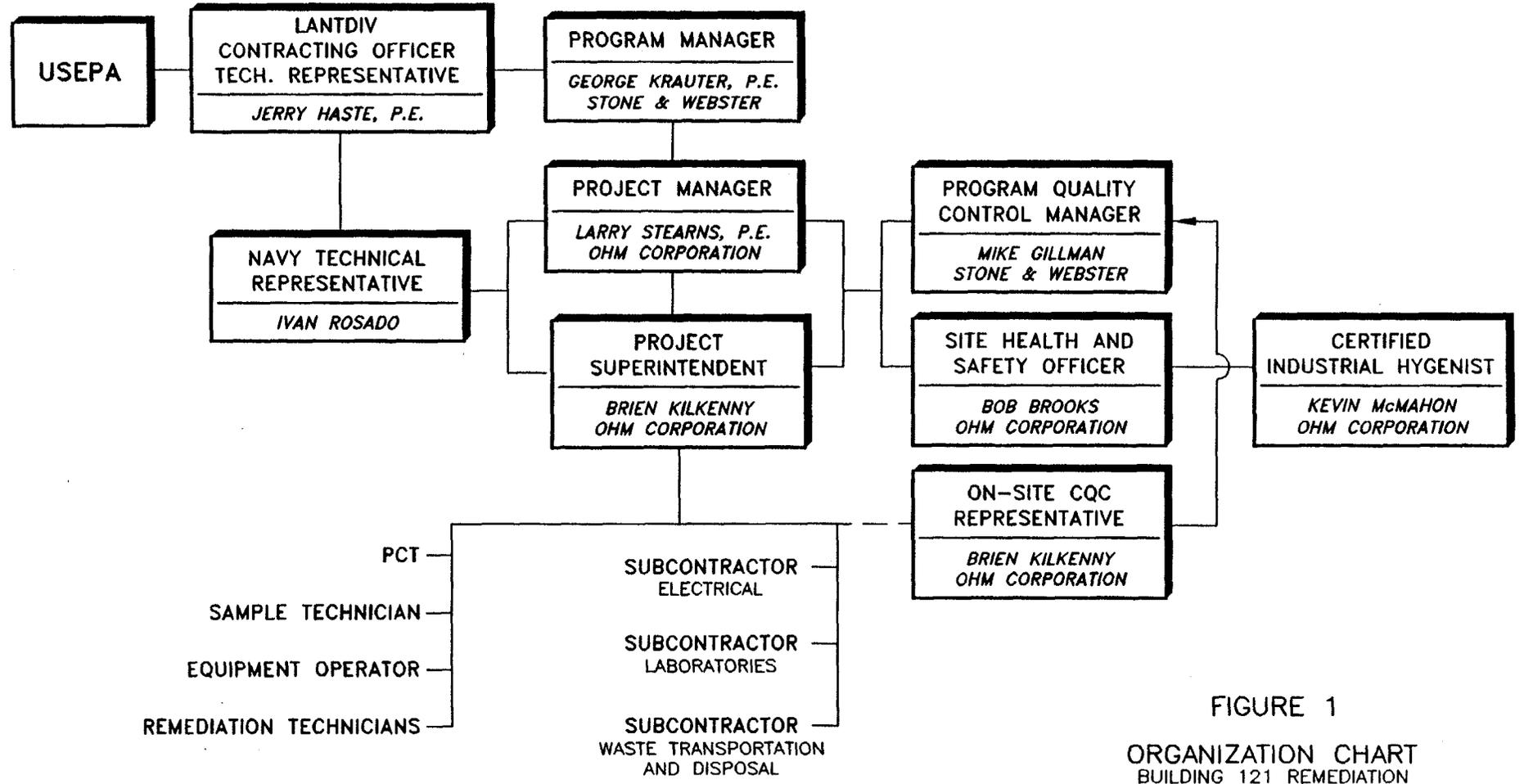
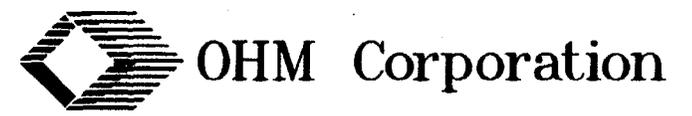


FIGURE 1

ORGANIZATION CHART
 BUILDING 121 REMEDIATION
 U.S. NAVAL STATION - ROOSEVELT ROADS

PREPARED FOR

DEPARTMENT OF THE NAVY
 ATLANTIC DIVISION - NAVFAC
 NORFOLK, VIRGINIA



DRAWING NUMBER 15591-A9

APPROVED BY

CHECKED BY

DRAWN BY
A.C. Smith 1/17/94

OHM CORPORATION
PITTSBURGH, PA

PLOT SCALE: 1" = 1'

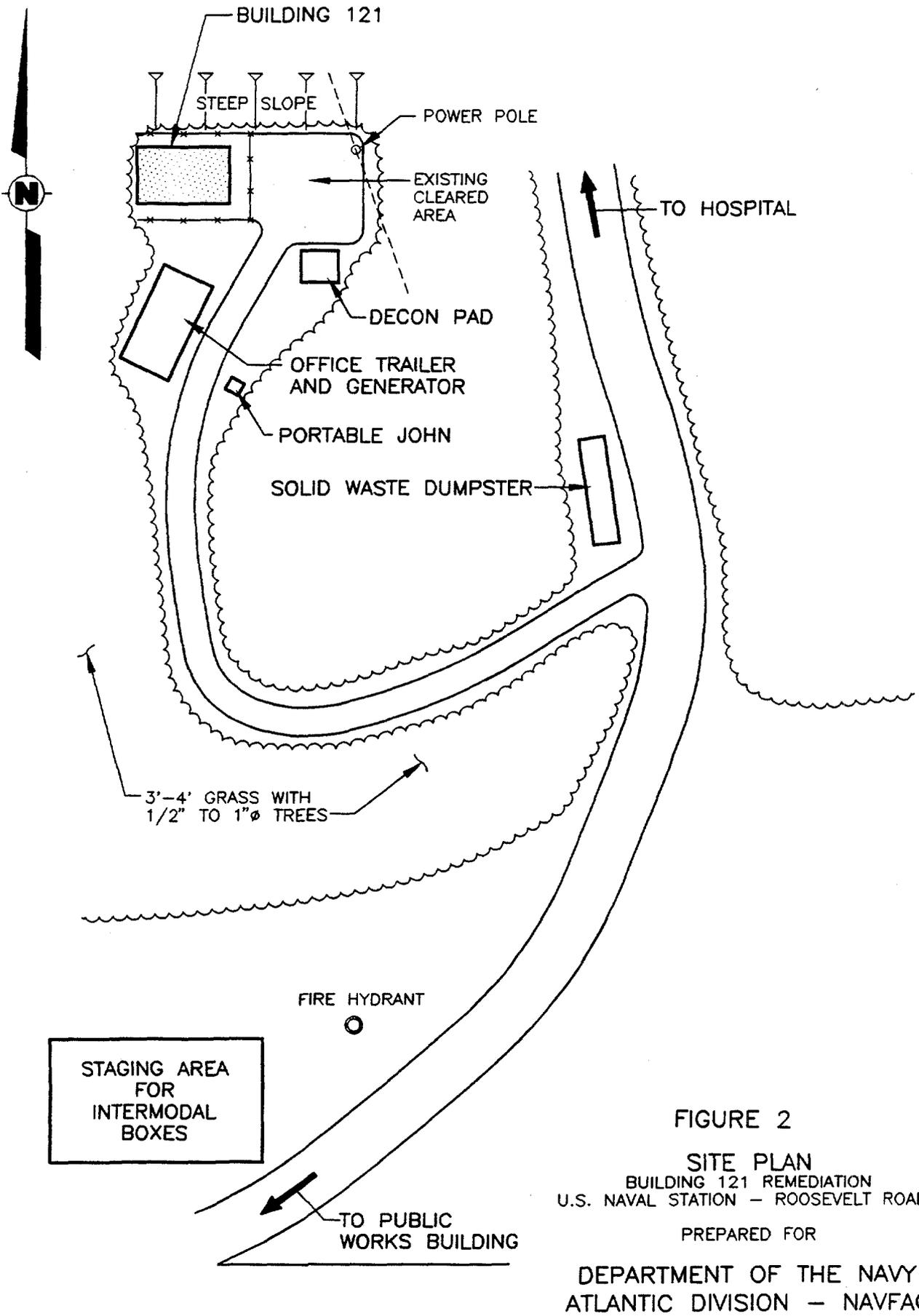
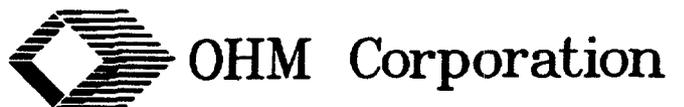


FIGURE 2

SITE PLAN
BUILDING 121 REMEDIATION
U.S. NAVAL STATION - ROOSEVELT ROADS

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NORFOLK, VIRGINIA



"THIS DRAWING NOT TO SCALE"

APPENDIX A

SCHEDULE

DRAWING NUMBER 15591-A2

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DRAWN BY B.O'Connor 1-17-94

OHM CORPORATION PITTSBURGH, PA

PLOT SCALE: 1" = 1'

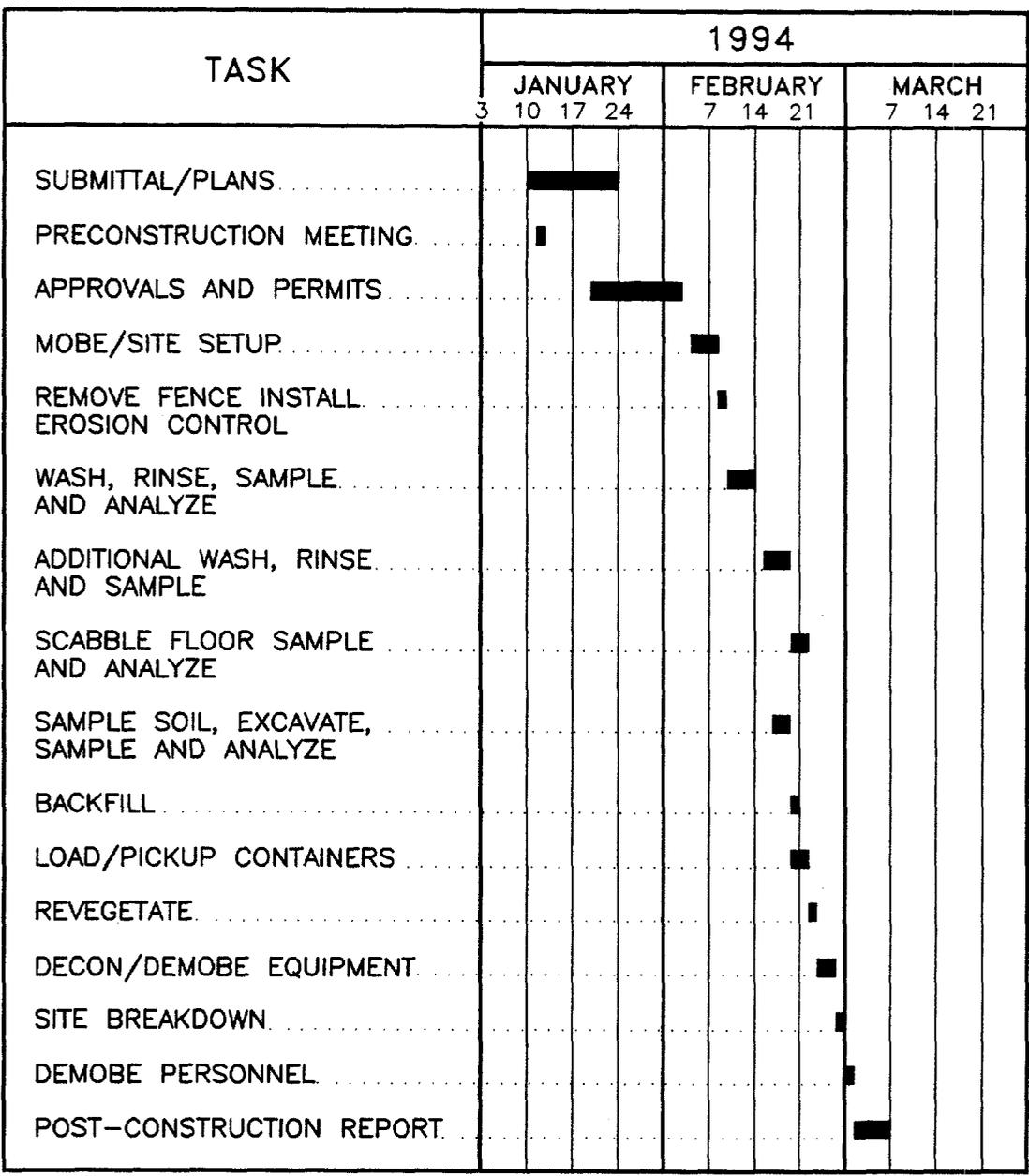
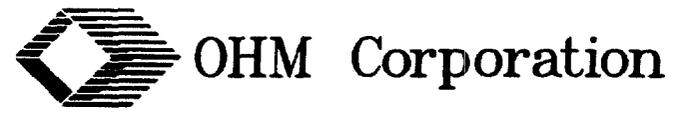


FIGURE 8
 PROJECT SCHEDULE
 BUILDING 121 REMEDIATION
 U.S. NAVAL STATION - ROOSEVELT ROADS
 PREPARED FOR
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 NORFOLK, VIRGINIA



APPENDIX B
PROOF OF CITIZENSHIP

COMMONWEALTH OF PENNSYLVANIA

DEPARTMENT OF HEALTH
VITAL STATISTICS
CERTIFICATION OF BIRTH

DATE OF BIRTH <small>(MO. DAY. YEAR. HOUR)</small>	7-20-41 2:30 p.m.	FILE NO.	90882-41
CITY, BOROUGH, OR TOWNSHIP OF BIRTH	SWISSVALE	DATE FILED	7-25-41 <small>(MO. DAY YEAR)</small>
COUNTY OF BIRTH	ALLEGHENY	DATE ISSUED	6-21-76 <small>(MO. DAY YEAR)</small>

SUBJECT GENE EDWIN MacEVOY

SEX MALE



This is a true certification of name and birth facts on file in Vital Statistics, Pennsylvania Department of Health.

Charles Hardester
CHARLES HARDESTER
STATE REGISTRAR

Leonard Bachman
LEONARD BACHMAN, M.D.
SECRETARY OF HEALTH

H105 105 (Rev. 11-75)



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