ANANIA GEOLOGIC ENGINEERING

ADDENDUM TO SITE SAFETY PLAN
FOR EXCAVATED FUEL TANK AREA
CARNATION DAIRY FACILITY
1310 14TH STREET, OAKLAND, CALIFORNIA

AGE PROJECT NO. 004-88-059

SEPTEMBER 14, 1989

UNDERGROUND TANK ABANDONMENT

All work will be conducted with complete concern given for the safety of all persons in and around the work area. Strict adherence to the following guidelines will be monitored by the AGE SSO or their designee.

The immediate work area will be inspected and made as safe as possible. Obstructions that hinder safe work practices will be removed when possible. Heat, flame and spark sources will be removed or extinguished. All residual product remaining in the tank will be pumped or drained off to the lowest possible level.

Vacuum tank trucks or other types of equipment used for pumping the sludge from a tank must be operated in a vapor-free area and located upwind from the tank and outside the path of probable vapor travel.

Where conditions permit, it is preferable that the tank be freed of flammable vapors before other steps are undertaken. Vapor freeing implies the complete replacement of the hydrocarbon vapors in the tank with fresh air. Work in the area will be kept to a minimum in the initial stage of vapor-freeing.

The atmosphere in the tank and the surrounding area will be tested frequently throughout the operation with a vapor indicator to determine the progress of vapor-freeing operations.

Prior to entering a tank to perform the cleaning activities, the tank will be tested for flammable/toxic vapors and oxygen content. The flammable vapor content must not exceed 20 percent of the lower flammable limit (LFL). Most hydrocarbon vapors are toxic. Tests will be made to ensure that vapor concentrations are within established threshold limit values (TLV) noted in the Risk Assessment Summary section of the Site Safety Plan. If the tank is free of combustible/toxic vapors and the oxygen content is

greater than 19.5 percent, measured by an oxygen content meter, personnel entering the tank will employ level C protection equipment. However, if the oxygen content is <u>less</u> than 19.5 percent, level B protection will be employed. Continued monitoring of the vapor and oxygen contents will be conducted while personnel are within the tank.

Each tank will be retested for vapors and oxygen content before reentry after any extended interruption of work or after an overnight break in operations.

A harness and lifeline will be worn by all personnel entering the tank for ease of rescue in the event of an emergency. In addition, a tripod assembly will be utilized over the access manway, whenever possible, to assist in lifting out an injured person.

While workmen are inside the tank completing the cleaning process, personnel will be stationed outside the tank to assist in the event The outside personnel will have adequate of an emergency. respiratory equipment available for the work conditions above ground. Someone qualified to administer artificial respiration and simple first aid will be available.

Portable fire extinguishers will be available in the immediate work area at all times.

Flammable and toxic vapors may be present as long as oil or sludge remains within the tank. For this reason, forced ventilation will acceptable provided. regardless of test results flammable/toxic vapors, until oil and sludge have been removed.

Cleaning compound residuals removed, other than by vacuum tank truck, will be placed in D.O.T. approved containers for proper disposal. All containers shall be labelled as containing hazardous waste.

Surfaces which are to be heated by welding or other processes should be free of liquid hydrocarbons, ignitable scale deposits or other deposits which could release flammable/toxic vapors. Frequent tests should be made to ensure that the atmosphere in the tank is not in excess of 10 percent of the LFL and the TLV requirement is met. Continued ventilation will be required during welding/heating to minimize accumulation of flammable vapors.

Surfaces which might be heated excessively by welding, or other operations, and have been in contact with leaded gasoline, should supplied be cleaned down to bare metal. Welders may use fresh / air respiratory equipment as yan alternative to cleaning down to bare metal.

a safety measure instead of

EDIANTURAL TO EVANOE ISSUE DATE (MM/DD/YY) 6/27/89 RECEIVED OCT 1 0 1989 THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW RBH NORTHERN CA.-OAKLAND COMPANIES AFFORDING COVERAGE P.O. BOX 1439 DAKLAND, CA 94604 COMPANY LETTER National Union Fire - Seattle CODE SUB-CODE COMPANY INSURFO LETTER Industrial Indemnity - S.F. COMPANY LÉTTER Erickson, Inc. American Home Ass. - S.F. 255 Parr Blvd. COMPANY LETTER <u>National Union - L.A.</u> Richmond COMPANY LETTER 94801 CA COVERAGES THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OF CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OF MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES, LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS. œ LT# POLICY EFFECTIVE POLICY EXPIRATION DATE (MWDD/YY) TYPE OF INSURANCE POLICY MUMBER ALL LIMITS IN THOUSANDS CENERAL LIABILITY GENERAL AGGREGATE \$ 2000 X COMMERCIAL GENERAL LIABILITY GL5415700 5/01/89 5/01/90 PRODUCTS-COMPIOPS AGGREGATE 2000 CLAIMS MADE X OCCUR PERSONAL & ADVERTISING INJURY 1000 OWNER'S & CONTRACTOR'S PROT. EACH OCCURRENCE 1000 FIRE DAMAGE (Any one fire) 100 MEDICAL EXPENSE (Any one person) 5 AUTOMOBILE LIABILITY COMBINED SINGLE ANY ALITO AS8825055 7/01/90 7/01/89 5,000 ALL OWNED AUTOS BODILY SCHEDULED AUTOS (Per person) HIRED AUTOS BOOILY 25 July 18 INJURY NON-OWNED AUTOS (Per soci GARAGE LIABILITY PROPERTY DAMAGE EACH OCCURRENCE EXCESS LIABILITY AGGREGATE

OTHER THAN UMBRELLA FORM

WORKER'S COMPENSATION

AMD

EMPLOYERS' LIABILITY

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5/01/89

7/01/69

5/01/90

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1,000 (DISEASE-EACH EMPLOYEE)

1,000

1,7000

STATUTORY

\$1,000, OCCURRENCE \$5.000. AGGREGATE

(EACH ACCIDENT)

(DISEASE-POLICY LIMIT)

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/RESTRICTIONS/SPECIAL ITEMS

CERTIFICATE HOLDER

CANCELLATION

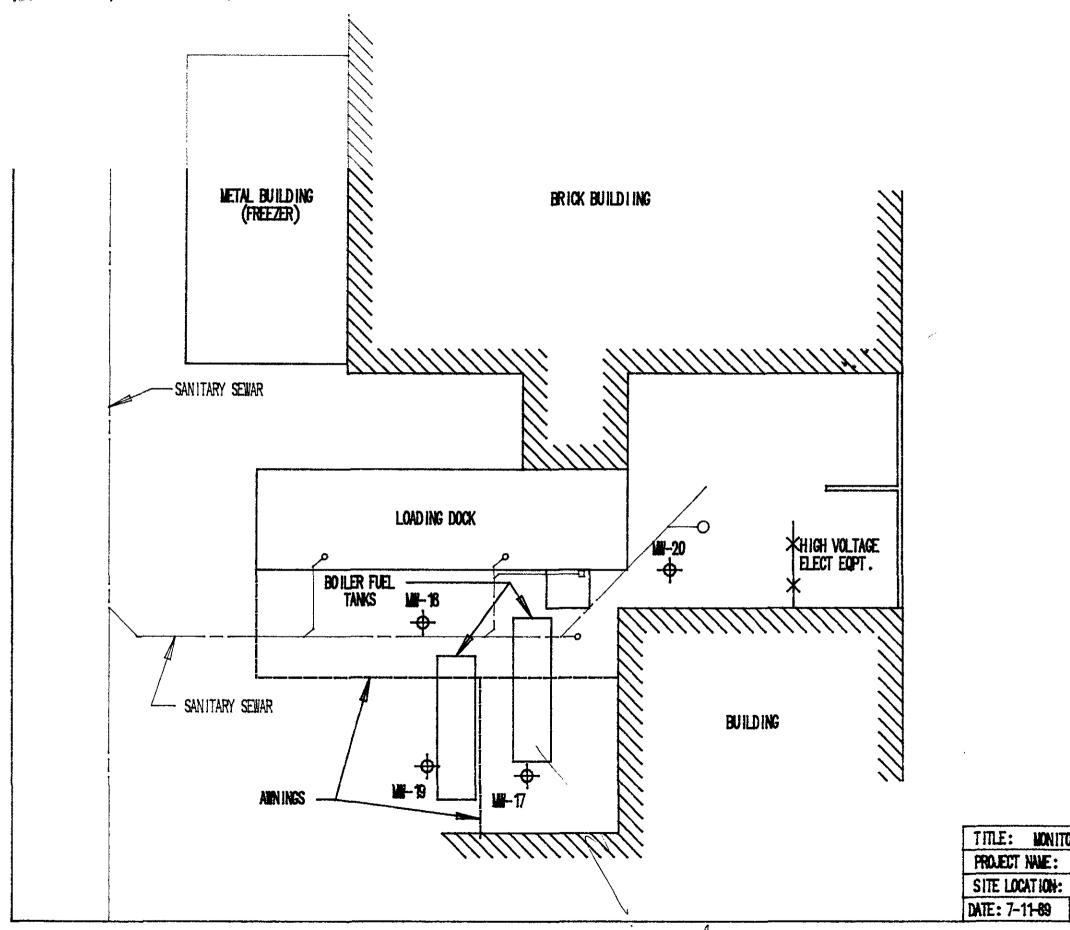
SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, IT'S AGENTS OR REPRESENTATIVES

AUTHORIZED REPRESENTATIVE

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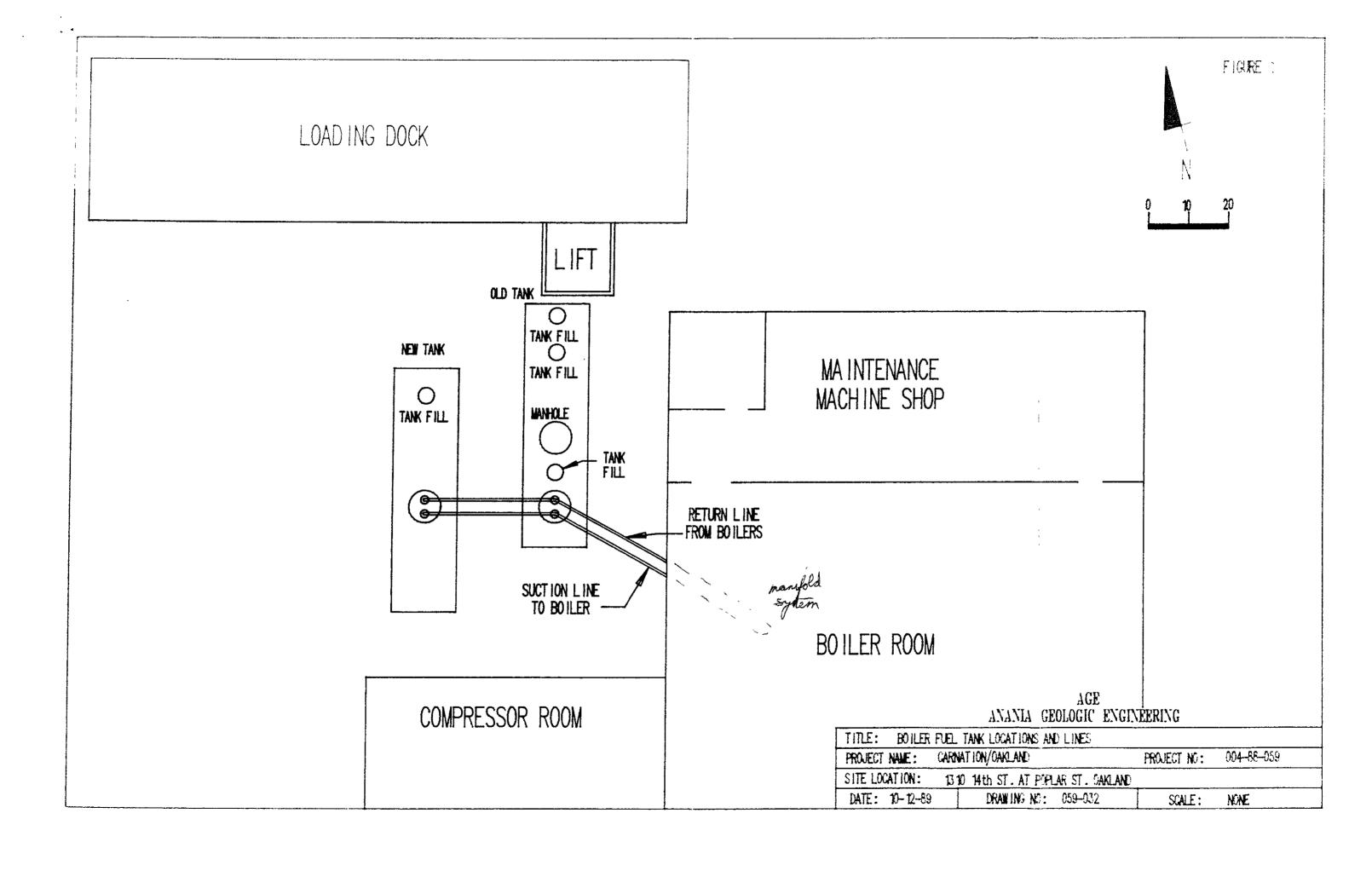
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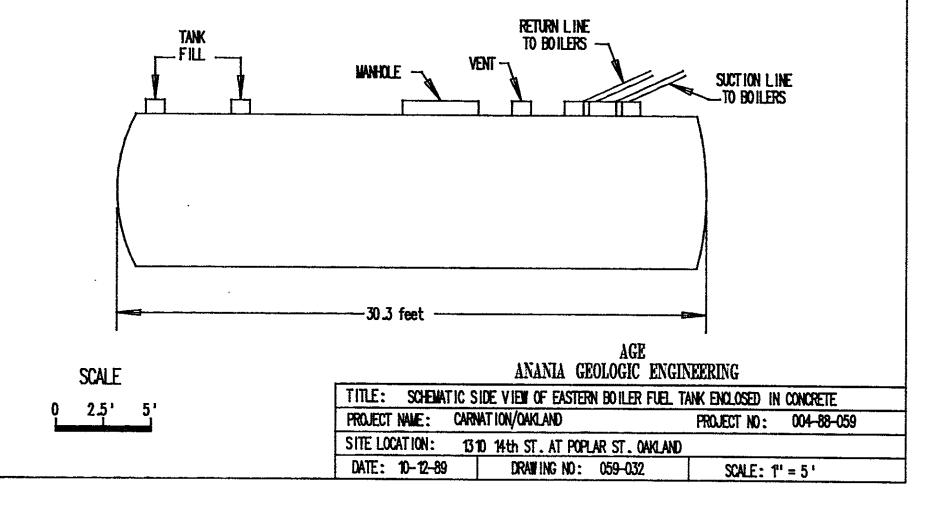
ANANIA GEOLOGIC ENGINEERING

TITLE: MONITORING WELLS MII-17 THROUGH MII-20					
PROJECT NAME:	CARNAT ION/OAKLAND				
SITE LOCATION:	1310 14th ST. OWLAND,	CA.			
DATE: 7-11-89	DRAWING NO.: 059-026	SCALE: 1'-20'	PROJ. NO. 004-88-059		

in concrete

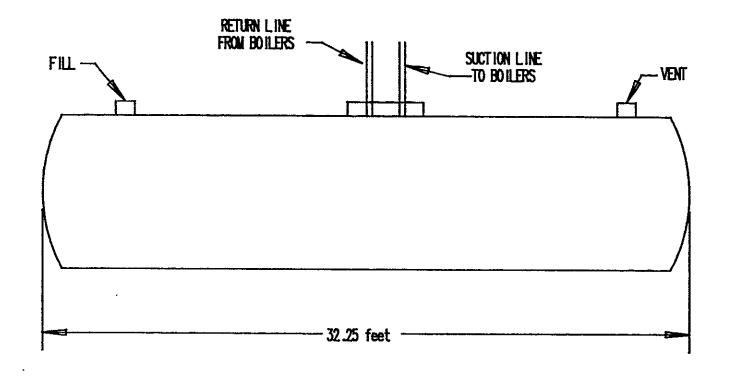


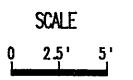
SCHEMATIC SIDE VIEW OF EASTERN BOILER FUEL TANK ENCASED IN CONCRETE



SCHEMATIC SIDE VIEW OF WESTERN BOILER FUEL TANK

FIGURE 3





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TITLE: SCHEMATIC SIDE VIEW OF WESTERN BOILER FUEL TANK				
PROJECT NAME: CARN	ation/oakland	PROJECT NO:	004-88-059	
SITE LOCATION: 13:10 14th St. At POPLAR St. OAKLAND				
DATE: 10-12-89	DRAWING NO: 059-033	SCALE: 1	SCALE: 1" = 5"	