

JOHN WAIHEE  
GOVERNOR



EDWARD Y. HIRATA  
DIRECTOR

DEPUTY DIRECTORS  
AL PANG  
JOYCE T. OMINE  
JEANNE K. SCHULTZ  
CALVIN M. TSUDA

IN REPLY REFER TO:

STATE OF HAWAII RECEIVED  
DEPARTMENT OF TRANSPORTATION

869 PUNCHBOWL STREET  
HONOLULU, HAWAII 96813-5097 91 NOV -8 A10:07

November 6, 1991 HAR-EP 1428.92  
OFC. OF ENVIRONMENTAL  
QUALITY CONTROL

To: Brian Choy, Director  
Office of Environmental Quality Control

From: Edward Y. Hirata, Director  
Department of Transportation *E. Hirata*

Subject: NEGATIVE DECLARATION - CARGO PIPELINES FOR KAWAIHAE  
PIER EXTENSION

In accordance with Chapter 343-5 (c), Hawaii Revised Statutes, we have reviewed the enclosed environmental assessment and determined that the action will not have a significant impact and, therefore, it is submitted as a Negative Declaration (NEG/DEC). We have enclosed the original plus four (4) copies of the the NEG/DEC on the proposal and a completed OEQC Form for publication in the OEQC Bulletin.

Should you have any question on the action, please contact Robert Nagao of our Harbors Division at 587-1880.

Enc.

202

1991-11-23-HI-FEA

date: October 22, 1991

\* KAWAIHAE PIER CARGO PIPELINES

KAWAIHAE, HAWAII \*

**APPLICANT:** CHEVRON USA, INC.  
FOR: Kawaihae Pipeline Group, Inc.  
1001 BISHOP STREET SUITE 1000  
HONOLULU, HAWAII 96813  
ATTENTION: Mr. James Lang  
(808 527 2700)

**APPROVING AGENCY:** DEPARTMENT OF  
TRANSPORTATION HARBORS DIVISION

**LOCATION:** TAX MAP 6/01/03:23

**DESCRIPTION OF THE PROPOSED ACTION:**

The proposed project involves 1) installation of four (4) pipelines under pier and 2) installation of new pipelines from the pier, underground across the container yard and terminating near the fence including valves, fittings and cathodic protection. Piping within State property will be in an easement secured from the State in accordance with the attached drawings.

The tax map key where the proposed action is to occur is 6/1/03, all a portion of Hawaii County, Hawaii.

The estimated cost of completed project is \$ 140,000 including installation of all new lines, pier hatches, valves, hangers, cathodic protection and related appurtenances.

**GENERAL DESCRIPTION OF TECHNICAL, ECONOMIC, SOCIAL AND ENVIRONMENTAL CHARACTERISTICS:**

**TECHNICAL:** The new pipelines are being installed at this time because of the preference of installing these lines before paving the container yard and also will be easier to provide for hatches, hangers, etc. under the pier during construction of new pier. The new lines will eventually be connected to the planned relocated storage facility in the Master Plan Designated Fuel Area.

The new replacement system will include new pipelines installed as proposed on the drawing. Three (3), eight (8) inch and one (1) ten (10) diameter lines are hung below the pier, from the hatch to the bulkhead. Lines are installed as near the slab as possible to keep above the water line at high tides and are coated with special epoxy coating for splash water corrosion protection. Sleeved openings through the bulkhead and beams shall be used for new piping. Valve hatches will be built for future valves and accessories. Pipelines will terminate in these hatches.

From the bulkhead, these lines will be installed underground at a nominal depth of three (3) feet. All buried piping will be coated with a extruded, high density, polyethylene and shall be cathodically protected.

Each pipeline will be hydrostatically tested at twice the working pressure prior to use.

The attached drawing "Right-Of-Way Plan", shows this proposed easement and alignment. The attached drawings, "Kawaihae Pier Cargo Pipelines", drawings T-1 through P-3, show the complete scope of the project.

The primary long range objective of this project is discontinuing the use of the existing pipelines, relocation of fuel barges to a more adequate pier location and installation of pipelines to deliver fuel to various tank storage facilities.

**ECONOMIC CHARACTERISTICS:** The economic characteristics of the proposed action are positive in that construction jobs will be made available, construction supplies, services and equipment will be purchased in Hawaii and State and County revenues will be generated.

New and larger size and number of lines will provide the community and area with a system designed to provide the fuel needs in accordance with the projected growth of the Island of Hawaii.

**SOCIAL CHARACTERISTICS:** The social characteristics of the proposed project are positive in that it will conform to the policies of the Special Management Area, protect coastal resources from potential oil spills and pipeline leakages and provide safe and efficient means for transporting and handling of various fuels.

**EXISTING CONDITIONS AND PROPOSED ACTIONS:** The environmental characteristics of the proposed project are positive in that the project is intended to install a pipeline transfer system using the latest proven materials of construction and protection systems. Construction activities will be performed in compliance with State and County environmental protection regulations and special precautions will be taken to ensure that no fuel is drained or spilled. Further the action is in accord with the State's long term environmental policies and goals; positively affects the economic and social welfare of the state; involves no secondary impacts on population or community facilities; is individually limited and does not cumulatively have an adverse effect on the environment or involve a commitment for larger actions; will not detrimentally affect air or water quality or ambient noise levels; or adversely affect environmentally sensitive areas.

**PROBABLE IMPACTS AND MITIGATION MEASURES:** Impacts to the project area environment could be caused by open welding of pipelines and equipment during fabrication; and the generation of construction dust, noise and wastes. Construction activities will utilize standard construction techniques and procedures. Pipeline welding will be accomplished by trained, experienced welders in compliance with applicable safety and environmental protection regulations. There are no hazards such as fire and fuel spills during construction. Construction area dust, noise and solid waste will be short-term and controlled through the implementation of existing established procedures. The proposed project will not affect any species of rare, threatened or

endangered plants or wildlife and the proposed action will not affect any known archaeological or historical sites of significance.

To mitigate potential adverse environmental impacts, applicable environmental protection regulations will be included in the project specifications and contract terms and conditions. Solid waste generated during the construction period will be collected and disposed in accordance with State and County environmental protection regulations; no lines containing fuel will be a part of this project; procedures for fire control will be those established by the Harbors Division; dust and noise caused by construction will be limited to the project site and will be short term; earthquakes, flooding and tsunamis will be considered in the design and proper design measures taken to protect the system.

**SUMMARY OF MAJOR IMPACTS:** As indicated above, the major potential adverse environmental impacts that could result from the propose project are noise generated during construction and the potential for fire during welding operations. The major future potential positive environmental impact is the release from possible line failures resulting in oil contamination of surrounding soils, property and harbors water and including resulting fire hazards, stoppage of pier operations traffic resulting in delays and congestion.

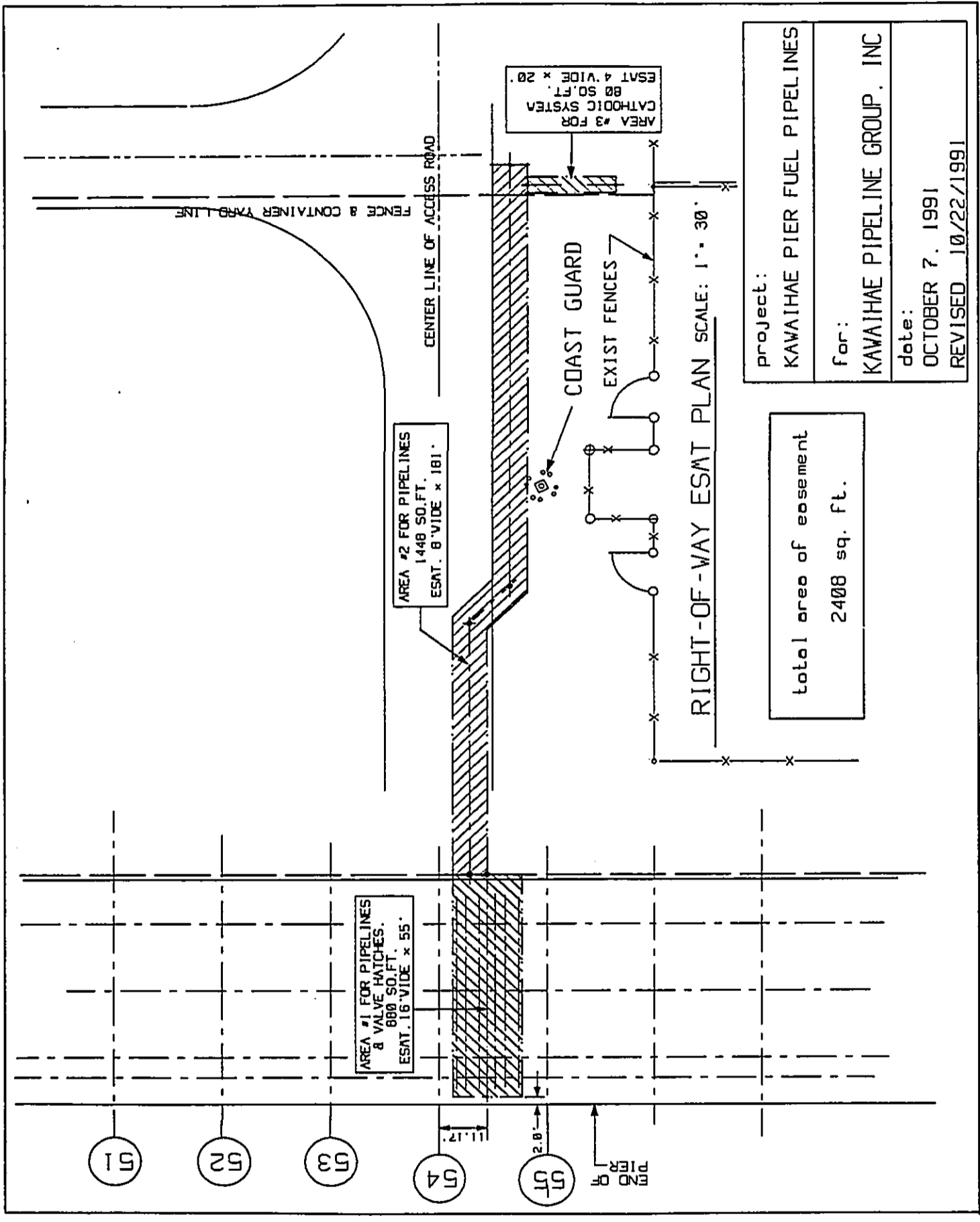
**ALTERNATIVES CONSIDERED:** There is no alternative for the installation of pipelines. The alternative to installing no pipelines is to continue hauling fuel by truck from Hilo Harbor. Minor Alternatives will be considered for the line easement in accordance with comments and suggestions by the Harbors Division.

**DETERMINATION:** Based on the above, the type of activity planned, the relative short-term duration of the project and lack of adverse environmental impacts, it has been determined that the proposed action will not have a significant impact on the environment. Based on the evaluation of the present Pier Project and the Master Plan it is imperative that a new system be installed in conjunction with the States' construction plan and schedule.

**SUMMARY OF REASONS SUPPORTING ABOVE DETERMINATION:**

1. The proposed action does not involve an irrevocable commitment to loss or destruction of any natural or cultural resource.
2. The proposed action increases the range of beneficial uses of the environment.
3. The proposed action is in concert with the State's long-term environmental policies, goals and guidelines.
4. The proposed action does not substantially affect the economic or social welfare of the community or state.
5. The proposed action does not involve substantial secondary impacts, such as population changes or effects on public facilities.
6. The proposed action does not substantially affect public health.

7. The proposed action does not involve a substantial degradation of environmental quality.
8. The proposed action is individually limited and cumulatively, does not have a considerable effect upon the environment or involve a commitment of larger actions.
9. The proposed action does not substantially affect rare, threatened or endangered species or habitats.
10. the proposed action does not detrimentally affect air, water quality or ambient noise levels.
11. The proposed action does not affect an environmentally sensitive area such as flood plain, tsunami zone, erosion prone area. geologically hazardous land, estuary or costal waters.
12. The proposed action is necessary because of the physical condition of the existing system it replaces and the resulting environmental consequences.



Project:  
 KAWAIHAE PIER FUEL PIPELINES

For:  
 KAWAIHAE PIPELINE GROUP, INC

Date:  
 OCTOBER 7, 1991

Revised: 10/22/1991

total area of easement  
 2408 sq. ft.

51

52

53

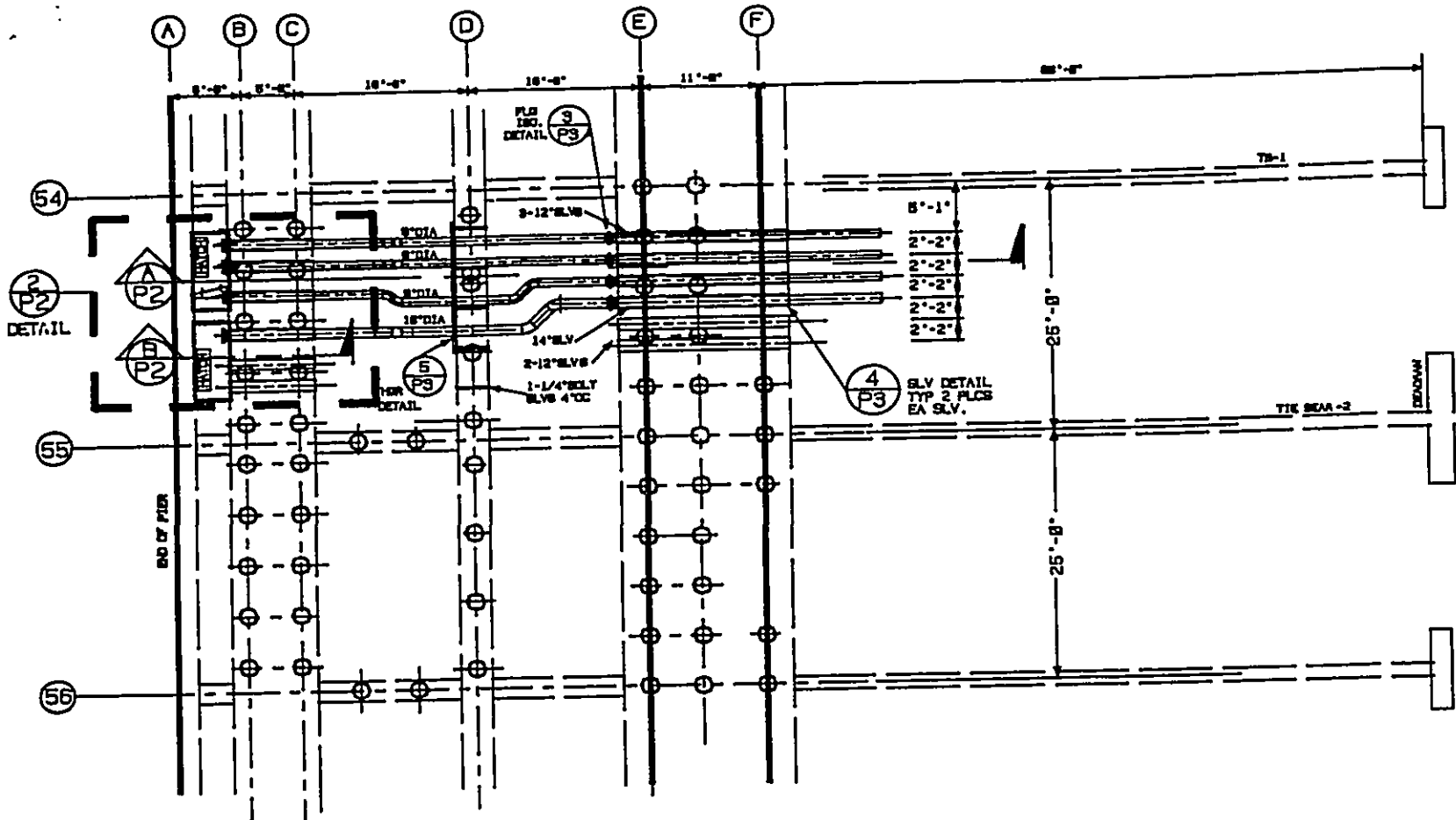
54

55

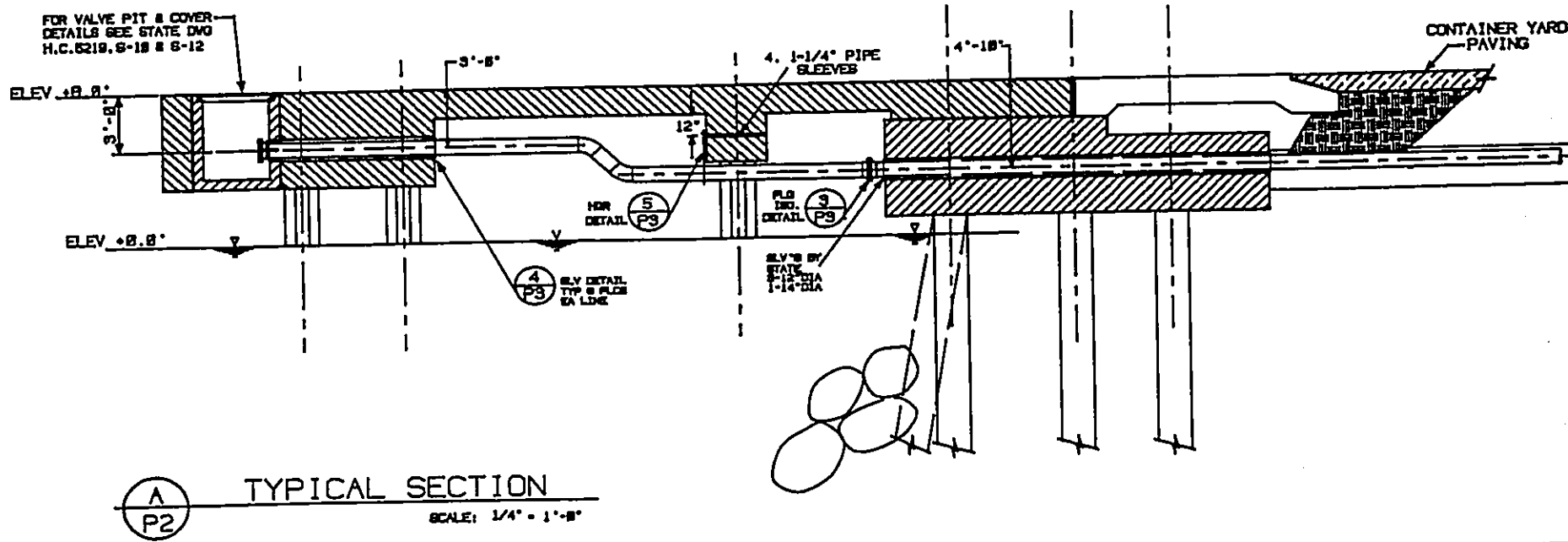
END OF PIER

11.17'

2.0'

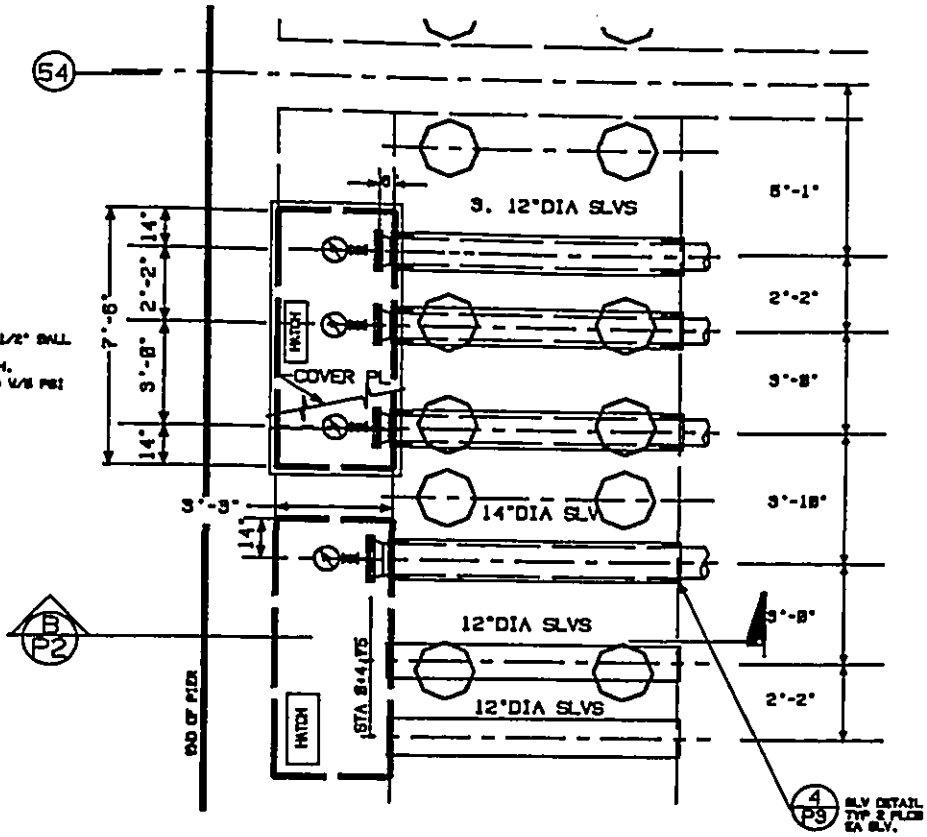


1 DETAIL. PIER PLAN  
 P2 SCALE: 1/8" = 1'-0"

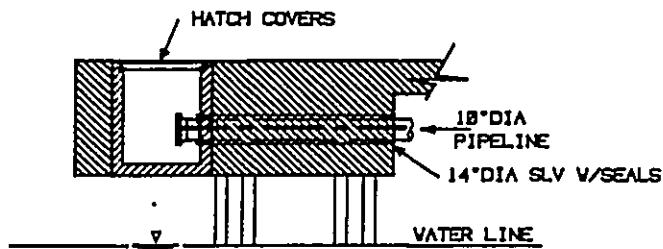


A TYPICAL SECTION  
 P2 SCALE: 1/4" = 1'-0"

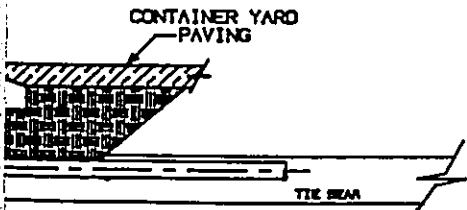
NOTE:  
 INSTALL BLIND FLANGE W/1/2" BALL  
 VALVE & PRESS. GA.  
 ON END OF LINE IN HATCH.  
 EACH LINE TO BE CHARGED W/8 PSI  
 NITROGEN FILL.



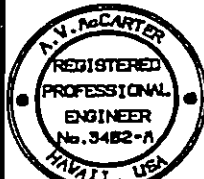
2 DETAIL. HATCH PLAN  
 SCALE: 3/8" = 1'-0"



B TYPICAL SECTION  
 SCALE: 1/4" = 1'-0"

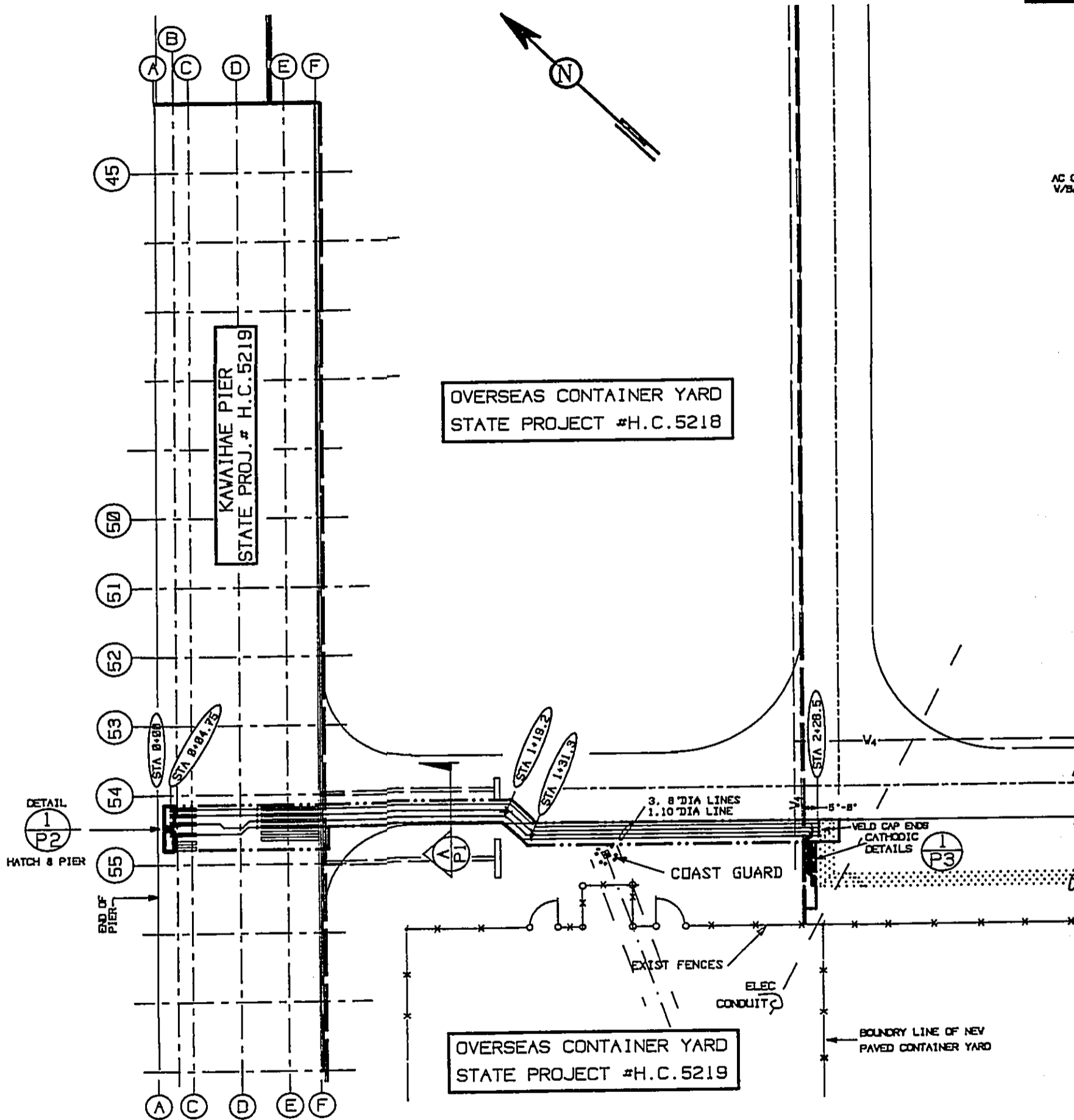


APPROVALS:			
BY:			
DATE:			
APPROVED FOR CONST.:	8/16/81	2	REV. SLVS AT BULKHEAD, ADD BOLT SLVS.
BY:	8/14/81	1	REVISED ISSUE
DATE:	5/28/80	0	INITIAL ISSUE
	DATE	ISSUE	DESCRIPTION
<b>McCARTER, INC.</b>			
P.O. BOX 10279, HONOLULU, HAWAII 96816 PH. 822-8743			
PROJECT: KAVAIHAE PIER CARGO PIPELINES			
DRAWN BY: PIER PIPING PLAN & SECTIONS			
DATE: For: CHEVRON USA, INC.			
PROJECT NO.		SHT. 3	DRAWING NO.
		OF 4	P-2



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONTRIBUTION OF THIS PROJECT WILL BE UNDER MY SUPERVISION





OVERSEAS CONTAINER YARD  
STATE PROJECT #H.C.5218

KAWAIIAE PIER  
STATE PROJ. # H.C.5219

OVERSEAS CONTAINER YARD  
STATE PROJECT #H.C.5219

1  
P1

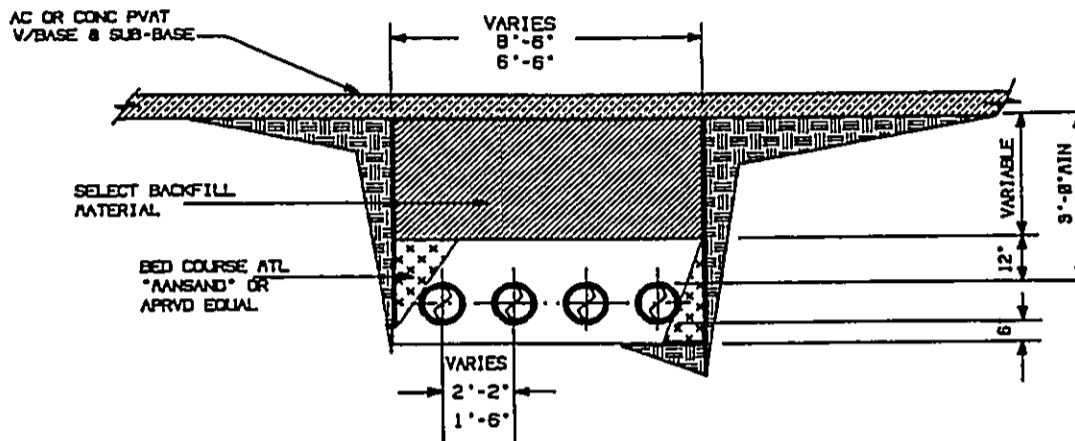
GENERAL PIPING PLAN

SCALE: 1" = 20'-0"

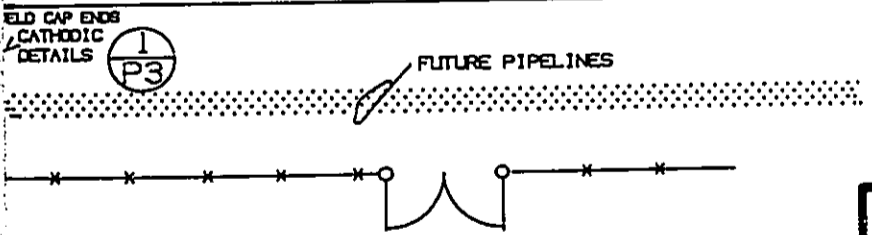
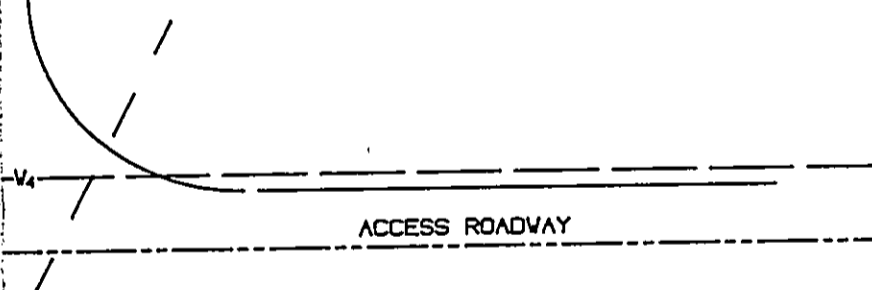
DETAIL  
1  
P2  
HATCH & PIER

1  
P3  
WELD CAP ENDS  
CATHODIC  
DETAILS

AC O  
V/BA



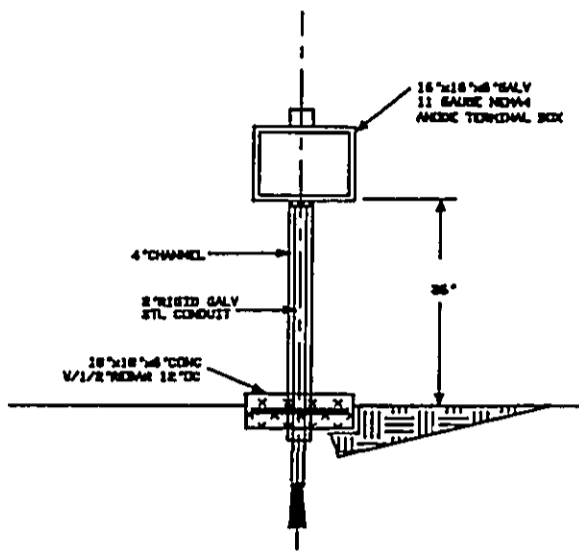
(A) TYP. TRENCH DETAIL  
 (P1) NO SCALE



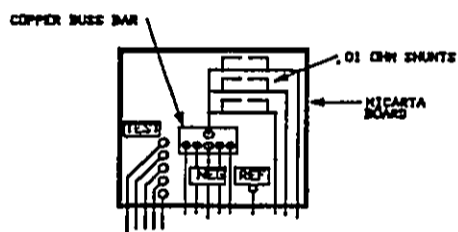
BOUNDARY LINE OF NEW PAVED CONTAINER YARD

AN  
 1" = 20'-0"

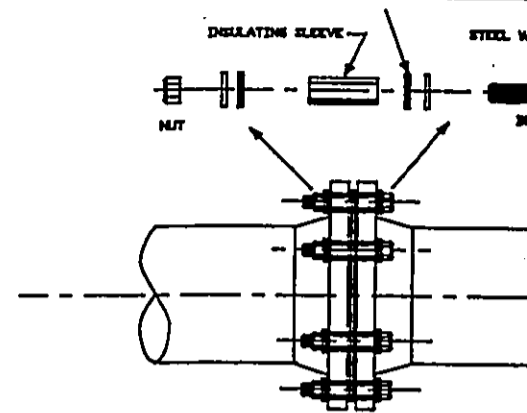
APPROVALS:			
BY:		8/18/91	3
DATE:		4/1/91	2
APPROVED FOR COST:		4/18/91	1
BY:		2/28/90	0
DATE:			
		SYMBOL	DESCRIPTION
			AC
		<b>McCARTER, INC.</b> P.O. BOX 10279, HONOLULU, HAWAII 96816 PH. 922 5743	
DESIGNED:	A.V. McCarter	PROJECT: KAWAIHAE PIER CARGO PIPELINES	
DATE:	OCT 18, 1991		
DRAWN BY:		GENERAL CARGO PIPING PLAN	
DATE:		For: CHEVRON USA, INC.	
SCALE:	NOTED	PROJECT NO.	SHT. 2 OF 4
FILE:	00AVP1.DWG		DRAWING NO. P-1



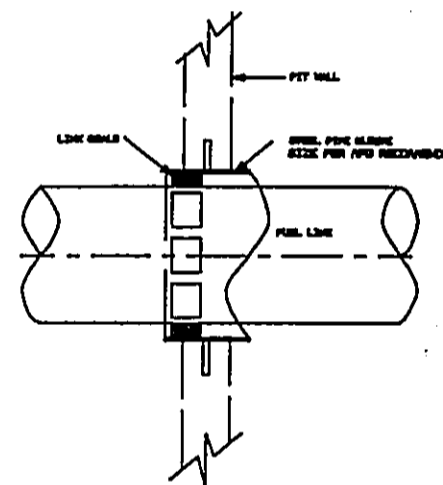
(B) C.P. TEST STATION  
NO SCALE



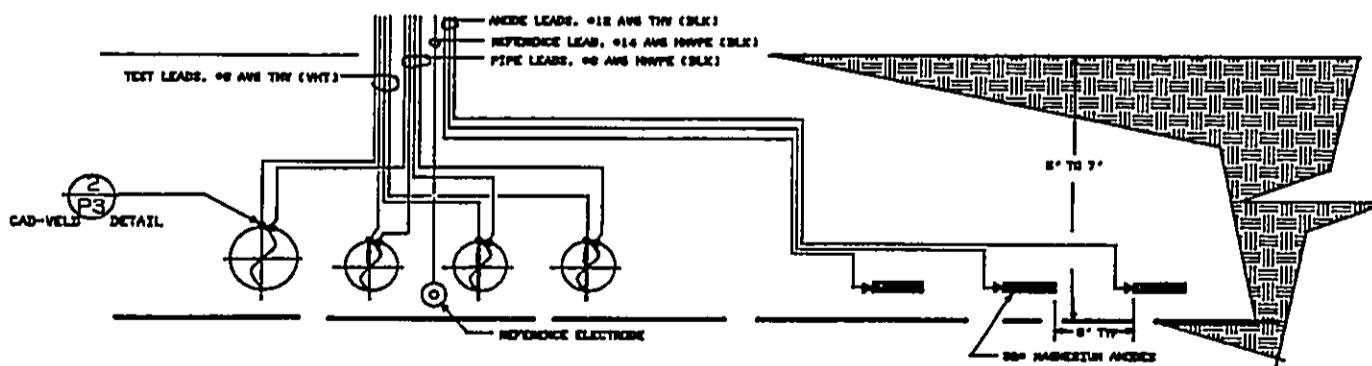
(A) ANODE TERMINAL BOX  
NO SCALE



(3) INSULATING FLANGE DETAIL  
NO SCALE

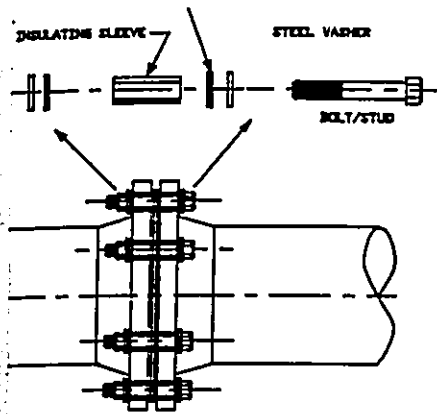


(4) DETAIL, PIPE SLEEVE  
NO SCALE

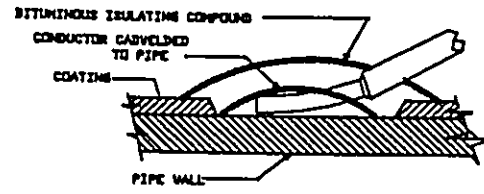


(1) SCHEMATIC, TEST STATION/ ANODE BED DIAGRAM  
NO SCALE

(2) CAD-WELD DETAIL

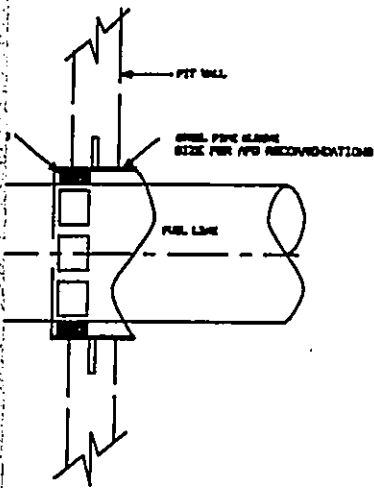


**INSULATING FLANGE DETAIL**  
NO SCALE



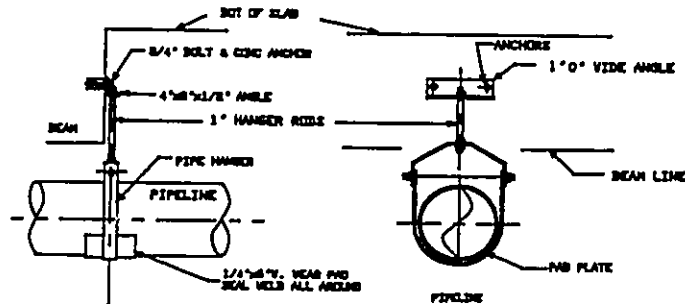
- NOTE:**
1. METAL SURFACE TO BE DRY & FREE OF FOREIGN MATERIAL
  2. CONDUCTOR END BE SHARPEND OR THROTTLE WELDED
  3. CONNECTION & COVERED METAL TO HAVE 1/8" INSULATION
  4. COAT & WRAP PIPE FOR SPACIFICATION
  5. LIMATE AT PIPE BUTT WELDS

**2** **CABLE CONNECTION TO PIPE**  
NO SCALE



**DETAIL, PIPE SLEEVE**  
NO SCALE

- PIPE HANGER NOTES:**
1. ALL RIDS, ANCHORS, BOLTS, ETC. SHALL BE STAINLESS STEEL.
  2. ALTERNATE ANCHORS: SCREW HANGER RIDS IN ANCHORS SET IN SLAB. DELETE 4" x 1/2" ANGLE



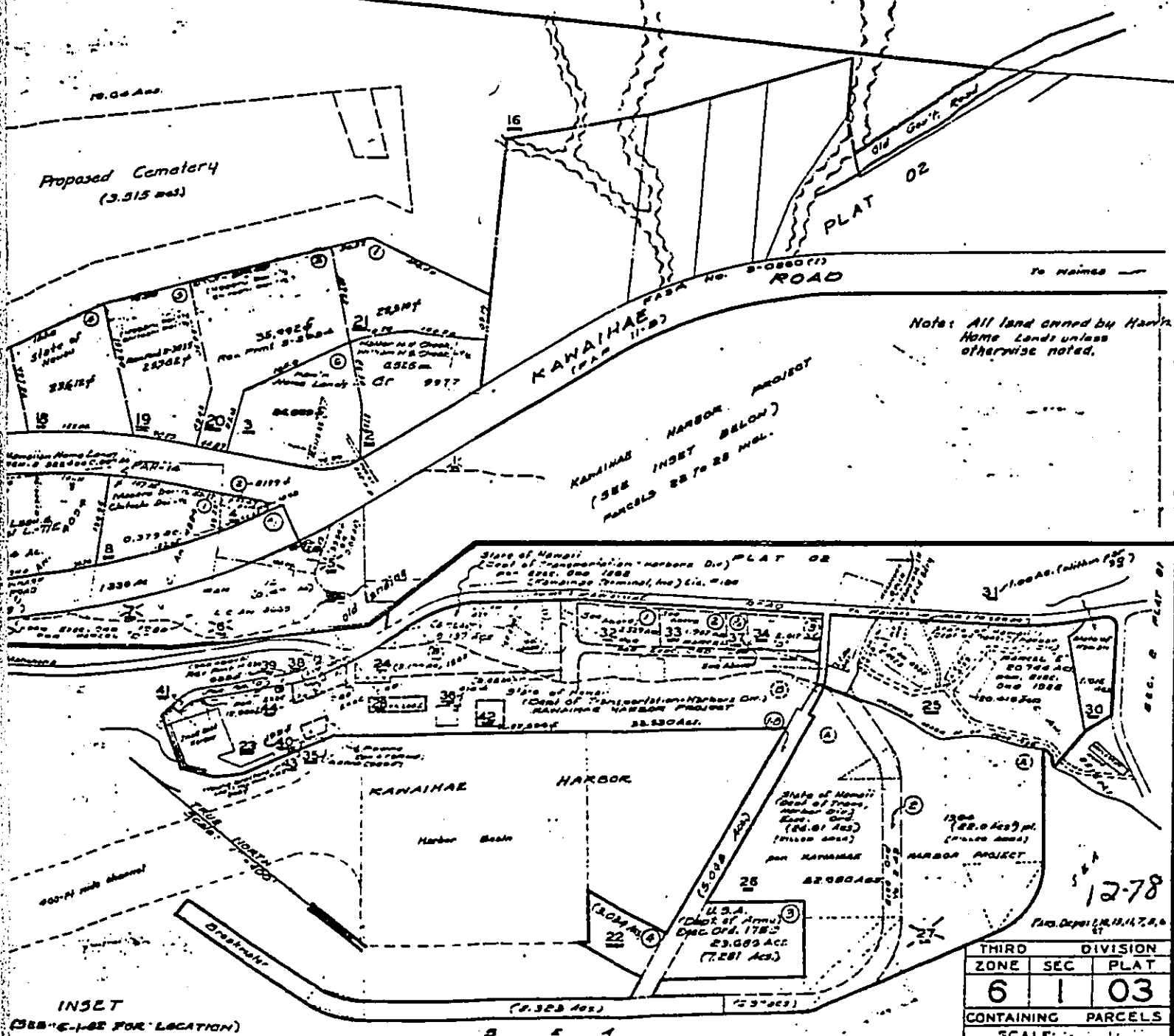
**5** **DETAIL, PIPE HANGER**  
STYLE I  
NO SCALE

<b>APPROVALS:</b>				
BY:				
DATE:				
<b>APPROVED FOR CONST:</b>		8/18/81	1	ADDED HANGER DETAILS
BY:		8/18/81	0	INITIAL ISSUE
DATE:		DATE	SYMBOL	DESCRIPTION
		<b>McCARTER, INC.</b> P.O. BOX 10279, HONOLULU, HAWAII 96816 PH. 822 0748		
		<b>PROJECT: KAVAIHAE PIER CARGO PIPELINES</b>		
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY SUPERVISION		<b>CATHODIC ANODE SYSTEM AND DETAILS</b> For: <b>CHEVRON USA, INC.</b>		
		PROJECT NO.	SHT. 4 OF 4	DRAWING NO. <b>P-3</b>



- 32 (Standard Oil Co. of Calif.) 18. - H.L. No. H-67-1
- 33 (Hawaii Chamber of Com.) H.L. No. H-67-8.
- 37 0.871 Ac.
- 38 (Kaiser Cement & Glass Corp.) H.L. No. H-67-2
- 39 (Young Brothers, Ltd.) H.L. No. H-67-3

IT 01



Note: All land owned by Han's Home Lands unless otherwise noted.

KAWAIIHAE HARBOR PROJECT (SEE INSET BELOW) PARCELS 22 TO 28 INCL.

INSET (SEE 'C' FOR LOCATION)

THIRD DIVISION		
ZONE	SEC	PLAT
6	1	03
CONTAINING PARCELS		
SCALE		

PRINTED

12-78