

JOANN A. YUKIMURA
MAYOR



PETER A. NAKAMURA
PLANNING DIRECTOR

ROLAND D. SAGUM, III
DEPUTY PLANNING DIRECTOR

TELEPHONE (808) 245-3919

COUNTY OF KAUAI
PLANNING DEPARTMENT
4280 RICE STREET
LIHUE, KAUAI, HAWAII 96766

RECEIVED

'91 AGO -8 P419

QUALITY

August 7, 1991

Mr. Brian J. J. Choy, Director
Office of Environmental Quality Control
220 South King Street, 4th Floor
Honolulu, Hawaii 96813

Subject: Negative Declaration for Chevron
Replacement of Fuel Lines Under Port Allen Pier
TMK: 2-1-03:06 Lot Size 2.39 Acres

The County of Kauai Planning Department has reviewed the environmental assessment for Chevron replacement of fuel lines, and has determined that the project will not have any significant impacts on the environment.

Based on our determination, we are filing a Negative Declaration for this project. Enclosed are the original and four copies of the environmental assessment.

Please contact Anne Schneider of my staff if you have any questions.


PETER A. NAKAMURA
Planning Director

Enclosures

33

1991-08-23- KA - FBA - Port Allen Pier Fuel line Replacement

COUNTY OF KAUAI
PLANNING DEPARTMENT

- () ZONING PERMIT APPLICATION
- () USE PERMIT APPLICATION
- () PROJECT DEVELOPMENT USE PERMIT APPLICATION
- () VARIANCE PERMIT APPLICATION
- () SPECIAL PERMIT APPLICATION
- SMA PERMIT APPLICATION

For Planning Department Use Only	
Zoning Permit No.	_____
Use Permit No.	_____
Variance Permit No.	_____
Special Permit No.	_____
SMA Permit No.	<u>SMA(II)-92-1</u>
Zoning Permit Class	_____
Date Received	<u>7/18/91</u> By <u>AS</u>
Date Approved	_____ By _____
Plans By	<u>McCarter, Inc.</u>
Permit Fee	<u>\$150.00</u> Date <u>7/18/91</u>

APPLICANT CHEVRON USA INC.
 ADDRESS 1001 BISHOP STREET #1000
HONOLULU, HI 96813

PHONE NO. (work) 922-5743 (home) 527-2711 (Greg Wanket) Existing Land Use _____
 Tax Map Key 2/1/03 Lot No. 06 Lot Size 2.39 AC Zoning _____

APPLICANT IS: (check one)

- A. Owner of Property _____ (Holder of at least 75% of the equitable and legal title.)
- B. Lessee of Property *Number of Years Leased 5 From 1991 to _____
- C. Authorized Agent _____ Attach Letter of Authorization *see submittal letter

NOTE: *Lessee must have an unexpired and recorded lease of five (5) years or more from date of filing this application. Owner(s) must sign below if lease is less than five (5) years remaining and/or unrecorded.

DESCRIPTION OF PROPOSED USE, IMPROVEMENT, ALTERATION, AND/OR CONSTRUCTION: (specify exact use, number of units, etc.) INSTALL 4 NEW COATED CATHODICALLY PROTECTED UNDERGROUND AND UNDER PIER FOR UNLOADING FUEL FROM BARGES.

FOR VARIANCE OR USE PERMITS ONLY

Conditions justifying Variance or Use Permit application: (use additional sheets as required) NEW PIPELINES REPLACE STATE OF HAWAII OWNED PIPELINES WITH SAME NUMBER AND SIZE OF LINES. STATE WILL LATER ABANDON & REMOVE THEIR LINES. ATTACHED IS AN INDEPTH DISCUSSION OF THE NEW PROJECT AND ENVIRONMENTAL IMPACTS

The owner and/or his authorized representative for the purposes of said permit shall, prior to commencing erection, construction, installation or placement of the foundations and/or footings of the improvements allowed hereunder, and after compliance with the foregoing condition, notify the Planning Department no later than 5 working days to commencement of such work, in order that the Planning Department might inspect and certify the applicable and imposed setbacks and other zoning requirements.

The construction, work, use, or activity approved in this permit shall be subject to inspection by the Planning Inspector or authorized personnel of the Planning Department, County of Kauai. The applicant is advised that inspection will occur prior to or during construction and use to ascertain compliance with the provisions of Ordinance No. 164, as amended, (Comprehensive Zoning Ordinance, County of Kauai, and/or other laws which are enforced by the Planning Department.

Signature D. W. McCarter P.E.
 Owner/Applicant
 for CHEVRON USA

DOCUMENT CAPTURED AS RECEIVED

McCARTER, INC.
P.O. BOX 10279 HONOLULU, HAWAII 96816 (808) 922 5743 FAX (808) 922 5840

May 15, 1991

County of Kauai
PLANNING DEPARTMENT
4280 Rice Street
Lihue, Kauai, Hawaii 96766

SUBJECT: SMA PERMIT APPLICATION ASSESSMENT

PROJECT: PORT ALLEN PIER CARGO PIPELINES

TAX MAP: 2/1/03:06

APPLICANT: CHEVRON USA, INC.
Pauahi Tower Suite 1000
1001 Bishop Street
Honolulu, Hawaii

Greg Wanket, Project Engineer

PLANNING DEPT.
'91 MAY 17 P2:15
COUNTY OF KAUAI

ROUTE TO:

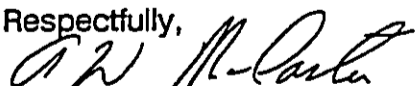
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Attached is an application for an assessment for determination of the requirement for a SMA permit. Included with this application is a discussion of the project and the related environmental impacts.

As a part of this submittal we have included the State of Hawaii's determination. This letter dated May 30, 1990, states that they have determined the proposed project is exempt from the preparation of an environmental assessment or environmental impact statement under exemption class #2 DOT revised exemption list. We also have included our earlier submittal to the State requesting the above determination.

Chevron does not have a lease at this time and has been granted a "right-of-entry" so construction can proceed. The States permit for Construction is contingent upon a Building Permit and a SMA permit, if required, from the County of Kauai. A lease agreement between Chevron and State of Hawaii will be made following completion of the project and submittal of metes and bounds descriptions based on the as-built conditions.

Please evaluate this submittal and notify Chevron of your determination and actions. If you have any question regarding this submittal, please call A.W. McCarter.

Respectfully,

A.W. McCarter, P.E.

**SPECIAL MANAGEMENT AREA USE PERMIT
ASSESSMENT APPLICATION**

COUNTY OF KAUAI

PLANNING DEPARTMENT

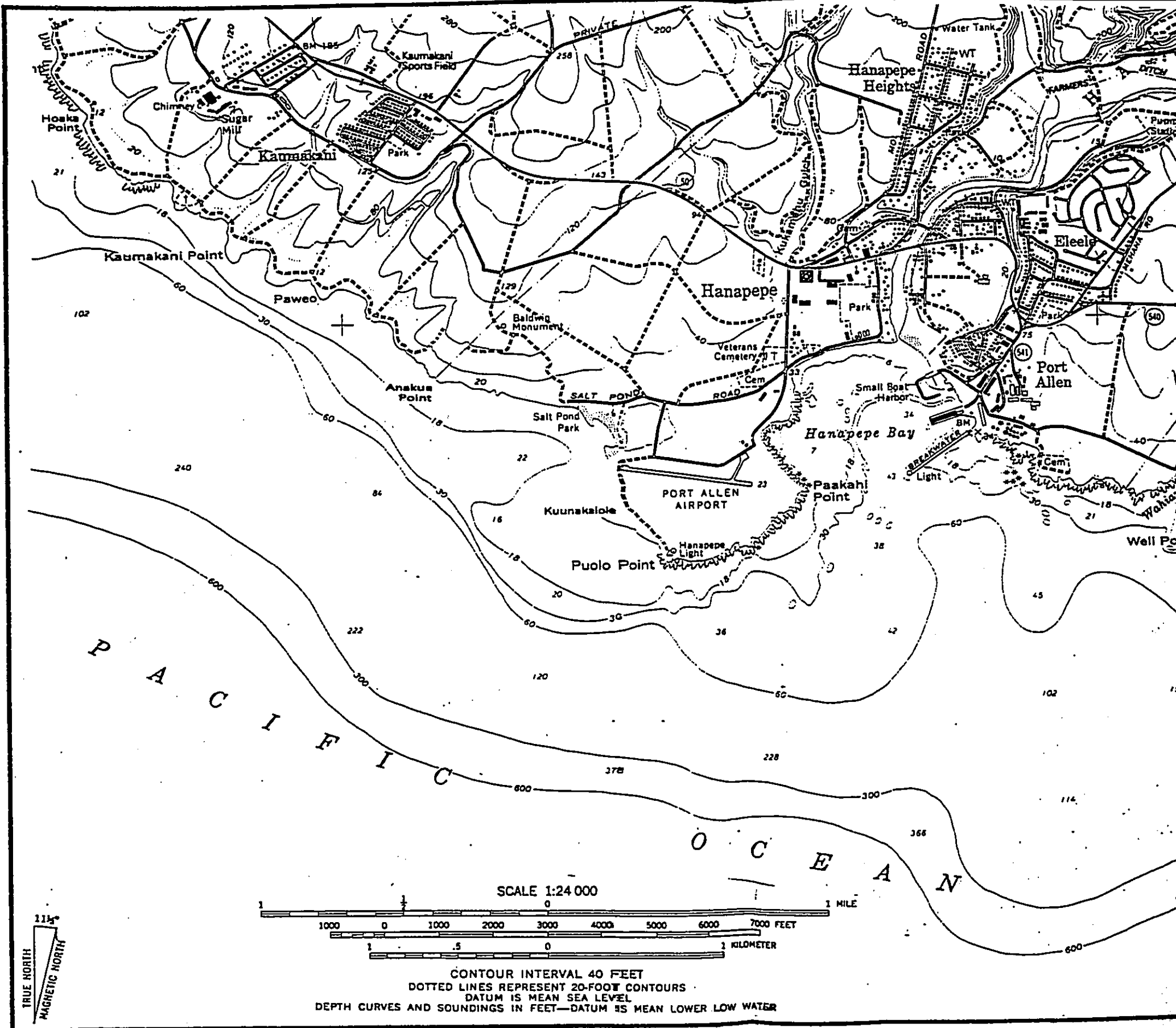
INFORMATION AND DOCUMENTATION

SUBMITTAL	TITLE
A.	SMA PERMIT APPLICATION
B.	PROJECT LOCATION MAP
C.	PROJECT DESCRIPTION
D.	PROJECT OBJECTIVES
E.	ANTICIPATED IMPACTS
F.	NOTICE OF NEGATIVE DECLARATION & REQUEST FOR DETERMINATION, STATE OF HAWAII, HARBORS DIV.
G.	TAX MAP
H.	PIPELINE PLAN, Dwg. P-1 & P-2
I.	PHOTOGRAPHS OF SITE

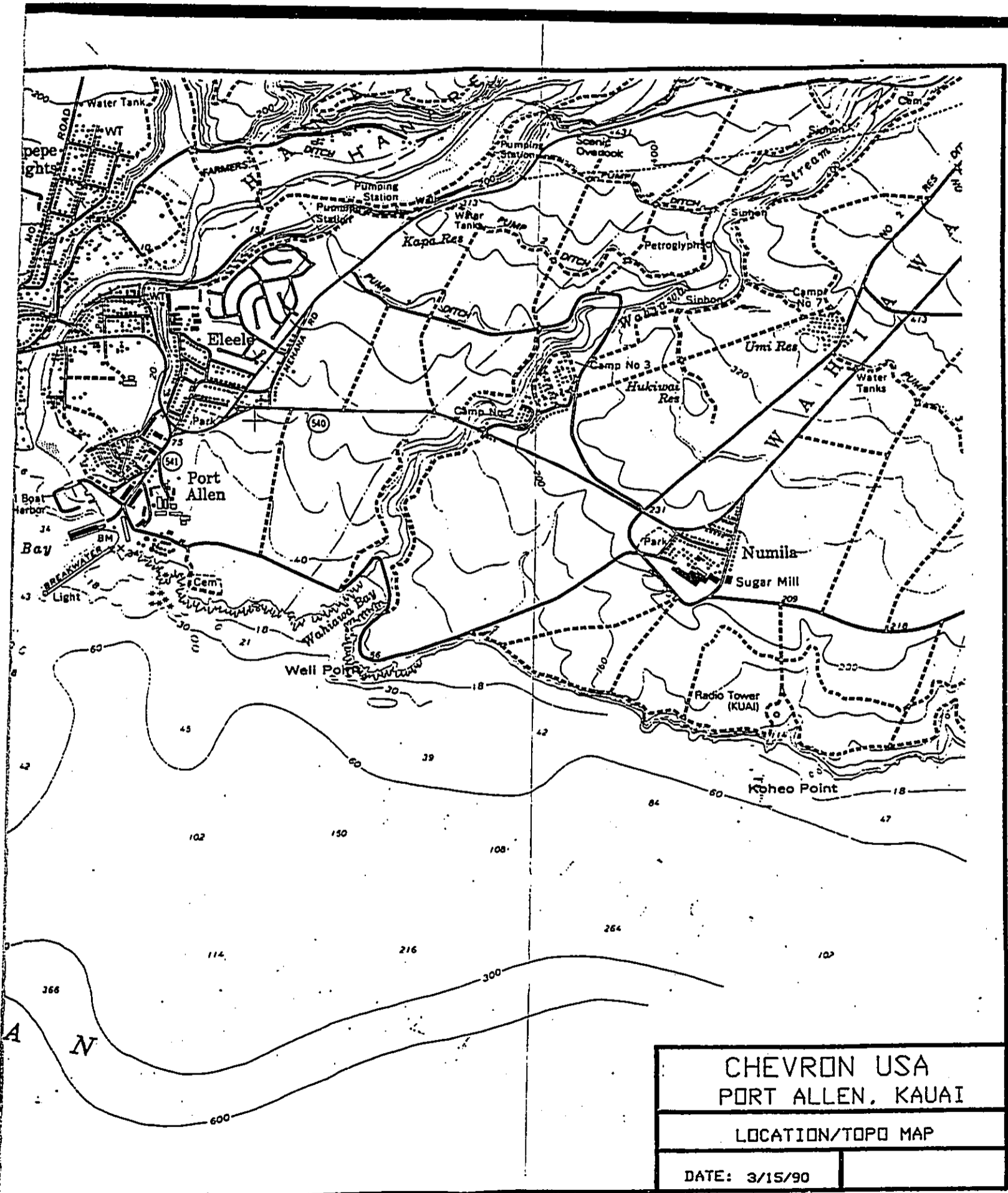
SUBMITTAL "A"
SMA USE PERMIT
APPLICATION

SUBMITTAL "B"
PROJECT LOCATION PLAN

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CHEVRON USA
PORT ALLEN, KAUAI

LOCATION/TOPO MAP

DATE: 3/15/90

SUBMITTAL "C"
PROJECT DESCRIPTION

PROJECT DESCRIPTION

The proposed project involves the replacement of four (4) State of Hawaii owned cargo pipelines from aboveground valves at landside to various valve hatches at the pier waterside. The four (4) new pipelines will be installed underground from the existing valves to the pier bulkhead and under the pier and alongside of existing piping to the valve hatches at the pier waterside. Piping is supported by new pipe hangers.

It is the responsibility of the State to remove the existing old pipes including draining and capping of any remaining portions of pipe. The State requested Chevron to install and own new lines to replace their old lines that had a history of leaks.

Specifically the project work includes disconnecting the State lines from Chevrons aboveground valves and installing the new pipelines underground and below the pier as shown on the drawings. A cathodic protection system will be installed to protect the underground piping from corrosion. Stainless steel hangers will replace existing hangers including additional hangers as required. Coated and wrapped pipe will be installed in the pipe hangers and terminate in the valve hatches. Valves are installed in the hatch for each line. This is the connection point for fuel barge hoses. Pits will be furnished with new pans for catching and containing spilled fuel from hoses, etc. The project includes approximately 750 feet for each line.

New lines, hangers, steel, etc. will be protected with coatings against external corrosion. Following the completion of each pipeline, each line will be hydrostatically tested to 200 PSI.

SUBMITTAL "D"
PROJECT OBJECTIVES

PROJECT OBJECTIVES

The primary objective of this project is for the State to abandon State owned fuel lines that are old and have a history of leaks and line breaks causing fuel to flow to the water directly below all piping. The State is concerned with their integrity and have requested that users' install their own pipeline cargo systems. Abandonment and removal is done by the State.

A second objective of the new design is to install the line and protect it from corrosion by using the applicable coatings and wrappings.

SUBMITTAL "E"
ANTICIPATED IMPACTS

ANTICIPATED IMPACTS

a. Description of area:

The area relative to the new section of piping includes the pier area only except for connection work in the end of line valve pit. The area above the piping is used for shipping and receiving materials for ocean going vessels. The area below the pier is open to the water below and used only by various piping systems.

b. Description of surrounding area and Land Uses:

The surrounding area is the Harbor Facility made up of large container storage areas, various storage warehouse sheds and buildings.

Fishermen often park in the area and over the buried lines. This will not change except during construction and parking will be limited in the work area until completion of the work.

c. Description of Project and Affect on Area:

There will be no visual affect on the surrounding area. All changes are below grade and hidden except for the connection to the existing aboveground valves on Chevron property.

d. Description of Impacts that cannot be Avoided:

We cannot avoid installing the pipe in close proximity to the water. Harbors policy is not to install any material or equipment above the pier deck. Leaks will be minimized by using the materials so specified and the owner monitoring and maintaining the pipe system.

e. Alternatives to the Proposed Project:

There is no satisfactory alternative to the proposed project that would adequately serve the needs for fuel requirements of the Island and Citizens Electric.

f. Irreversible and Irretrievable Commitments of Resources:

None.

SUBMITTAL "F"
NOTICE OF NEGATIVE DETERMINATION
REQUEST FOR DETERMINATION

JOHN WAIHEE
GOVERNOR



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HARBORS DIVISION
79 SO. NIMITZ HWY. • HONOLULU, HAWAII 96813-4898

EDWARD Y. HIRATA
DIRECTOR

DEPUTY DIRECTORS
DAN T. KOCHI (PRIMARY)
RONALD N. HIRANO
JEANNE K. SCHULTZ
CALVIN M. TSUDA

IN REPLY REFER TO:

May 31, 1990

HAR-PM 1279

Mr. Bill McCarter
McCarter, Inc.
P.O. Box 10279
Honolulu, Hawaii 96816

Dear Mr. McCarter:

This is in response to your letter dated May 10, 1990 submitted with a set of plans for our review concerning the proposed construction for the replacement of Chevron USA pipelines situated at Port Allen, Kauai.

Prior to any construction occurring on our property, a Construction Right of Entry Agreement (CROEA) must be approved by the Board of Land and Natural Resources (Land Board) and the Office of Attorney General. Before we can proceed with the preparation of the CROEA, the following conditions must be completed:

1. Resubmit your proposed plans for review with an engineer's stamp and signature. The engineer will be held responsible and accountable for the construction project.
2. Submit a metes and bounds survey description providing the area of the proposed easement to be occupied and a reduced map indicating the easement area.

We have determined that the proposed project is exempt from the preparation of an Environmental Assessment or Environmental Impact Statement under Exemption Class #2 DOT Revised Exemption List. The project may commence once all the terms and conditions of the CROEA are complied with and the necessary general liability insurance coverages are submitted. We anticipate that the processing of the CROEA will take approximately two months to complete.

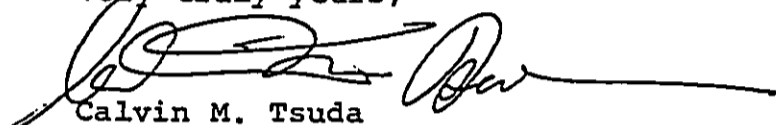
Upon completion of the proposed project, a thirty-five (35) year lease will be drafted and submitted for approvals by the Land Board and Office of Attorney General to cover the easement area.

Mr. Bill McCarter
May 31, 1990
Page 2

HAR-PM 1279

Should you have any questions, you may contact Mr. Derrick
Lining, Property Manager, at 548-2525.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Calvin M. Tsuda', with a long horizontal line extending to the right.

Calvin M. Tsuda
Deputy Director for Harbors

c: Mr. Steve Dehmer, Chevron USA

McCARTER, INC.

P.O. BOX 10279 HONOLULU, HAWAII 96816 (808) 922-5743

May 10, 1990

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HARBORS DIVISION
79 SOUTH NIMITZ HIGHWAY
HONOLULU, HAWAII 86913

ATTENTION: Mr. David K. Higa, Chief

SUBJECT: DETERMINATION OF ENVIRONMENTAL IMPACT STATEMENT

PROJECT: PORT ALLEN CARGO LINES REPLACEMENT

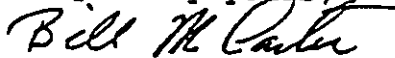
Dear Mr. Higa,

Attached are preliminary drawings and narrative descriptions of a project Chevron is proposing to start work before the fourth quarter of 1990. We are requesting a determination of the requirement for a "Environmental Impact Statement" and whether the project falls within the Exemption Class #2.

The following has been included to provide the Scope of Work, Project Description, Tax Maps, preliminary drawings, and a brief environmental assessment. The project includes disconnecting from existing State lines under the pier and underground to Chevrons Pipelines, abandoning by the State at a later date and replacing those State lines with four (4) new lines all within a new Chevron Easement and replacing old existing piping from the State pipelines with four (4) new pipelines and supports to Chevrons Terminal. These lines are old and subject to failure at any time. Generally the project involves replacement of pipe, equipment and structures with similar materials and new locations better suited for operations and maintenance.

Please review the project for the determination and recommendation.

Very truly yours,



Bill McCarter

cc/ Maynard Mast
Chevron USA

MAREK MANOR

409 LEWERS STREET

SUITE 129

date: May 7, 1990

PORT ALLEN CARGO PIPELINES

HONOLULU, HAWAII

APPLICANT: CHEVRON USA, INC.
1001 BISHOP STREET SUITE 1000
HONOLULU, HAWAII 96813
ATTENTION: Mr. Maynard Mast
(808 527 2720)

APPROVING AGENCY: DEPARTMENT OF TRANSPORTATION
HARBORS DIVISION

LOCATION: TAX MAP 2/01/03:7
2/01/03:32

DESCRIPTION OF THE PROPOSED ACTION:

The proposed project involves 1) disconnecting existing State pipelines under pier and underground to Chevron's pipelines and the abandoning (by the State at a later date) of existing lines, 2) installation of four (4) new pipelines under the pier and underground to Chevrons existing pipelines including valves, fittings, hatches, etc., 3) remove existing old pipelines from State property to terminal fence and replace with new piping and supports where needed. Piping within State property will be in an easement secured from the State in accordance with the attached preliminary plan.

The tax map key where the proposed action is to occur is 2/1/03, all a portion of Kauai County, Hawaii.

The estimated cost of completed project is \$ 330,000 including disconnection work, installation of all new lines from pier hatches to terminal valves, excavation, backfill, new supports, cathodic protection for underground lines and all related appurtenances.

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

TECHNICAL: The existing pipelines to be abandoned includes four (4) eight (8) inch diameter and one (1) ten (10) inch diameter installed in the early 1940's and some prior to 1940. These pipelines have a recent history of failures resulting in fuel spills. Pipelines to be replaced are used for delivery of fuel from the Pier to the Terminal Storage Tanks. The length of each line from the pier hatch to the Chevron piping is approximately 650 feet and each line from the State property to the Terminal connection is approximately 800 feet.

The new replacement system will include new pipelines installed approximately as proposed on the preliminary drawing. New eight (8) inch 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. Lines are coated with special epoxy coating for splash water corrosion protection. Bulkhead shall be drilled for new piping. From the bulkhead the new lines are buried as is the older parallel pipelines. These lines are exterior coated and shall have a cathodic protection system.

The existing aboveground pipelines, three (3) six (6) inch diameter and two (2) eight inch diameter, from the State property line will be removed and Four (4) new eight (8) inch diameter lines installed in the same locations using existing, repaired and replaced pipe supports. Above ground piping, supports, etc. will be painted.

Valve hatches will be repaired, valves and accessories replaced and the system hydrostatically tested and all below ground level piping 100 per cent radiographically examined.

The attached Tax Maps are marked up to show this proposed easement and alignment.

The primary objective of this project is discontinuing the use of the old pipelines along Nimitz Highway and replacing with new piping that is externally coated and cathodically protected where installed below ground. A secondary objective is to provide a upgraded transfer system with greater capacity and spill protection.

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.

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 replace old pipelines of questionable structural integrity. Recent failures and examination of the pipelines support this statement. 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; improves environmental quality of the project area by replacing old, deteriorated fuel lines with new lines; 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 the excavation work required; purging the lines of existing fuel oils; 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. Excavation areas are limited to onshore areas that are sufficiently removed from the shoreline such that excavated materials will not enter the harbor or surrounding offshore areas. Precautions will be taken to ensure that excavated materials are either disposed of at acceptable onshore locations or stored in locations sufficiently back from the shoreline to prevent their introduction into the harbor waters. Fuel line purging will be performed prior to cutting existing lines to ensure that fuel spills do not occur. Pipeline welding will be accomplished by trained, experienced welders in compliance with applicable safety and environmental protection regulations. Hazards such as fire and fuel spills will be controlled by the use of accepted prevention equipment and techniques governed by Harbors Division procedures. 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; special precautions, including the use of temporary collection basins, will be used to collect fuel oils remaining in lines after purging and prior to cutting the lines; 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 proposed project are spillage of oils remaining in the lines following purging, the dust and noise generated during construction and the potential for fire during welding operations. The major 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: An alternative considered was to repair the existing pipelines. This alternative was rejected because most pipe is corroded beyond repair and the exact areas of sever corrosion cannot be determined because it is either buried or otherwise not accessible. 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 piping system it is imperative that a new system be installed as soon as possible because of the increased risk of line failures.

SUMMARY OF REASONS SUPPORTING ABOVE DETERMINATION:

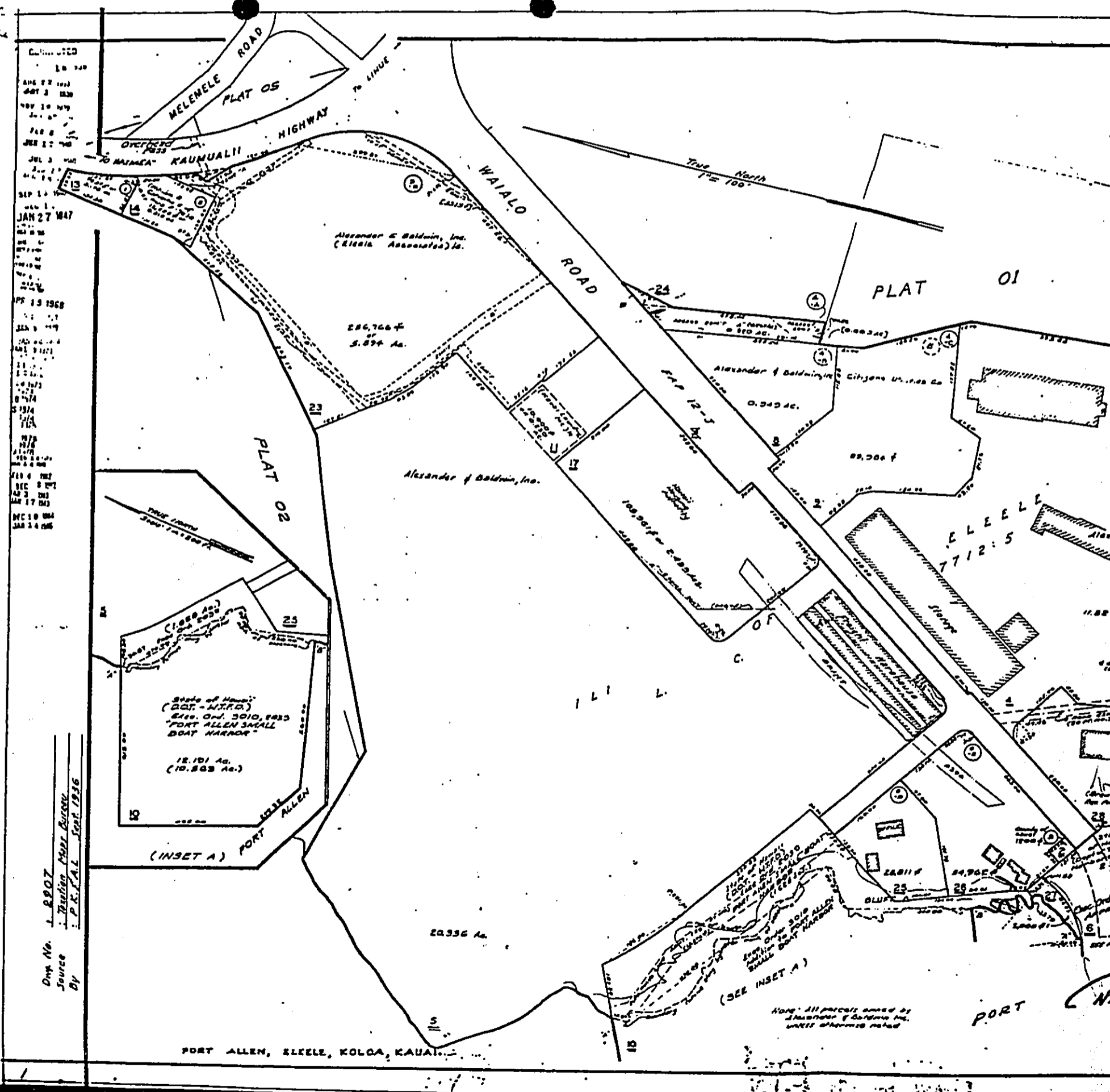
1. The proposed action does not involve an irrevocable commitment to loss or destruction of any natural or cultural resource.
2. The proposed action increases the range of beneficial uses of the environment.
3. The proposed action is in concert with the State's long-term environmental policies, goals 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.

SUBMITTAL "G"
TAX MAP

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APR 2 1925
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JUN 2 1928
JUL 2 1929
SEP 1 1930
OCT 1 1931
NOV 1 1932
DEC 1 1933
JAN 27 1947
FEB 1 1948
MAR 1 1949
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DEC 1 2030

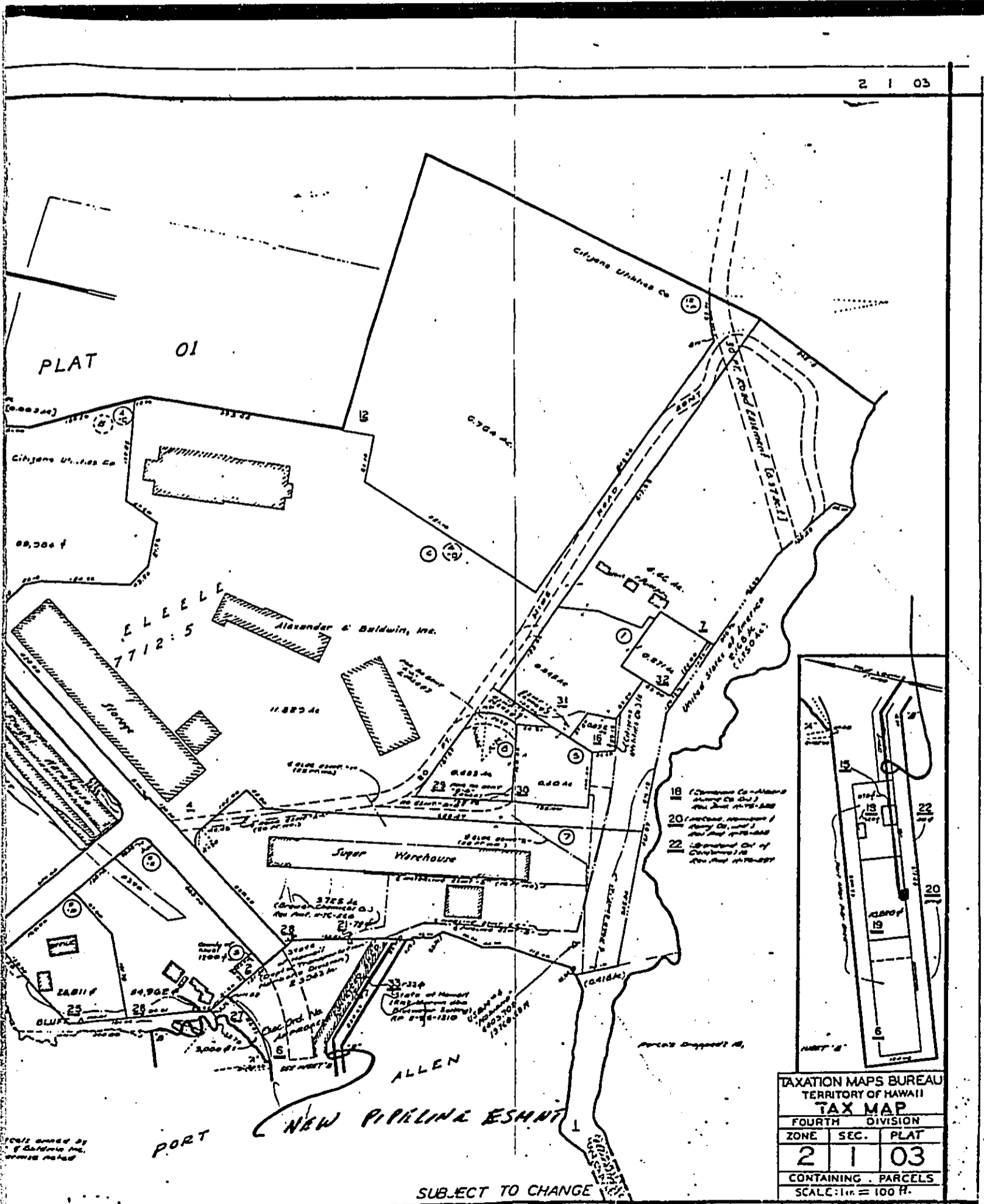
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PORT ALLEN, ELEELE, KOLOA, KAUAI.

Note: All prices shown by Alexander & Baldwin, Inc. unless otherwise noted.

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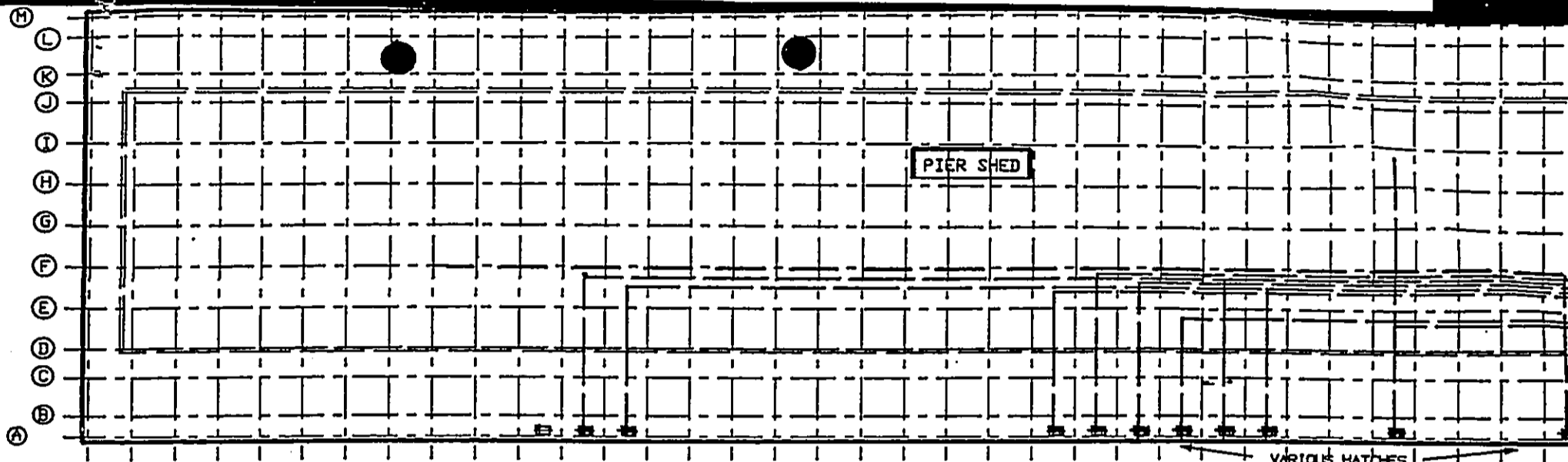
TAXATION MAPS BUREAU		
TERRITORY OF HAWAII		
TAX MAP		
FOURTH DIVISION		
ZONE	SEC.	PLAT
2	1	03
CONTAINING PARCELS		
SCALE: 1" = 100 FT.		

SUBJECT TO CHANGE

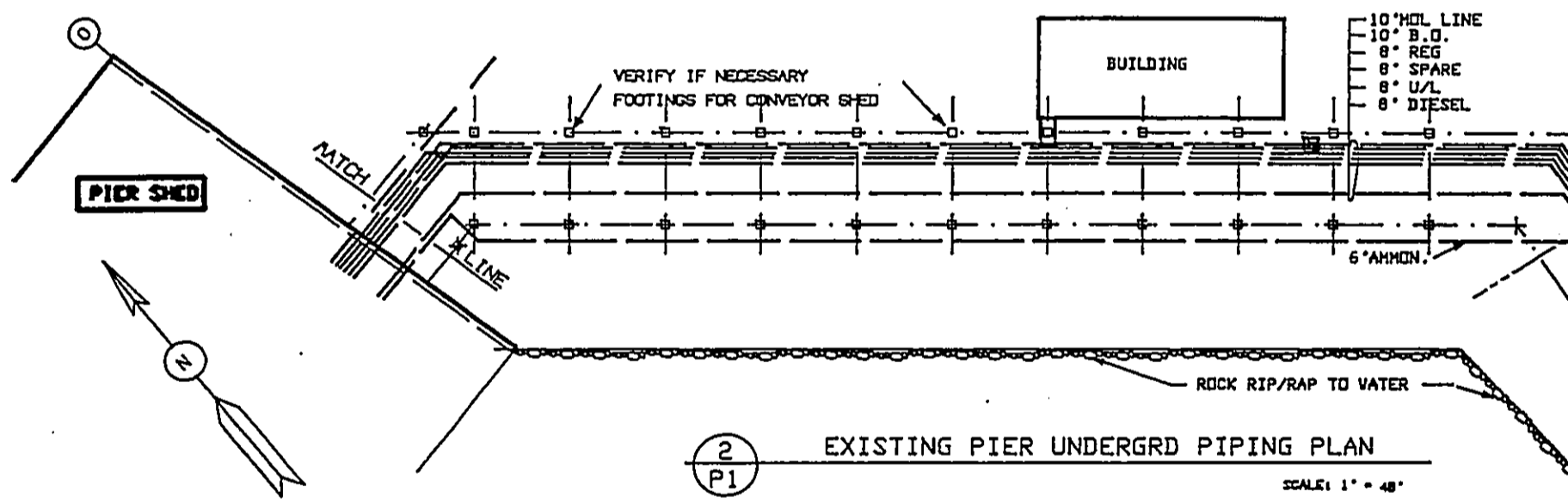
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SUBMITTAL "H"
PIPELINE DRAWING
DWGS. P-1 & P-2

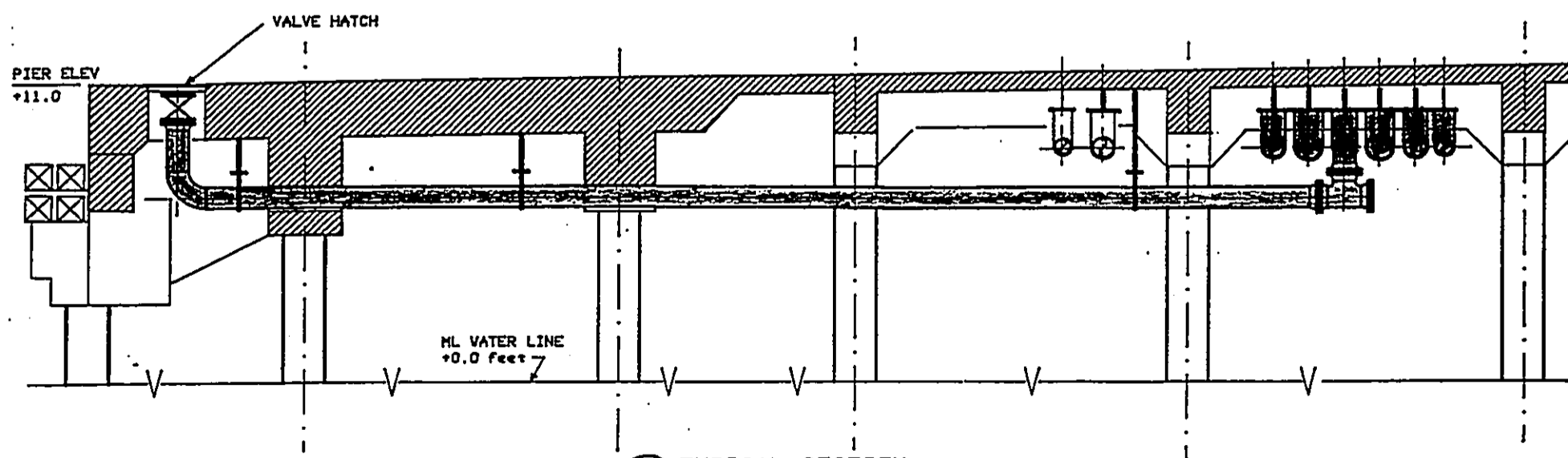
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1
P1
EXISTING PIER PLAN
SCALE: 1" = 48"

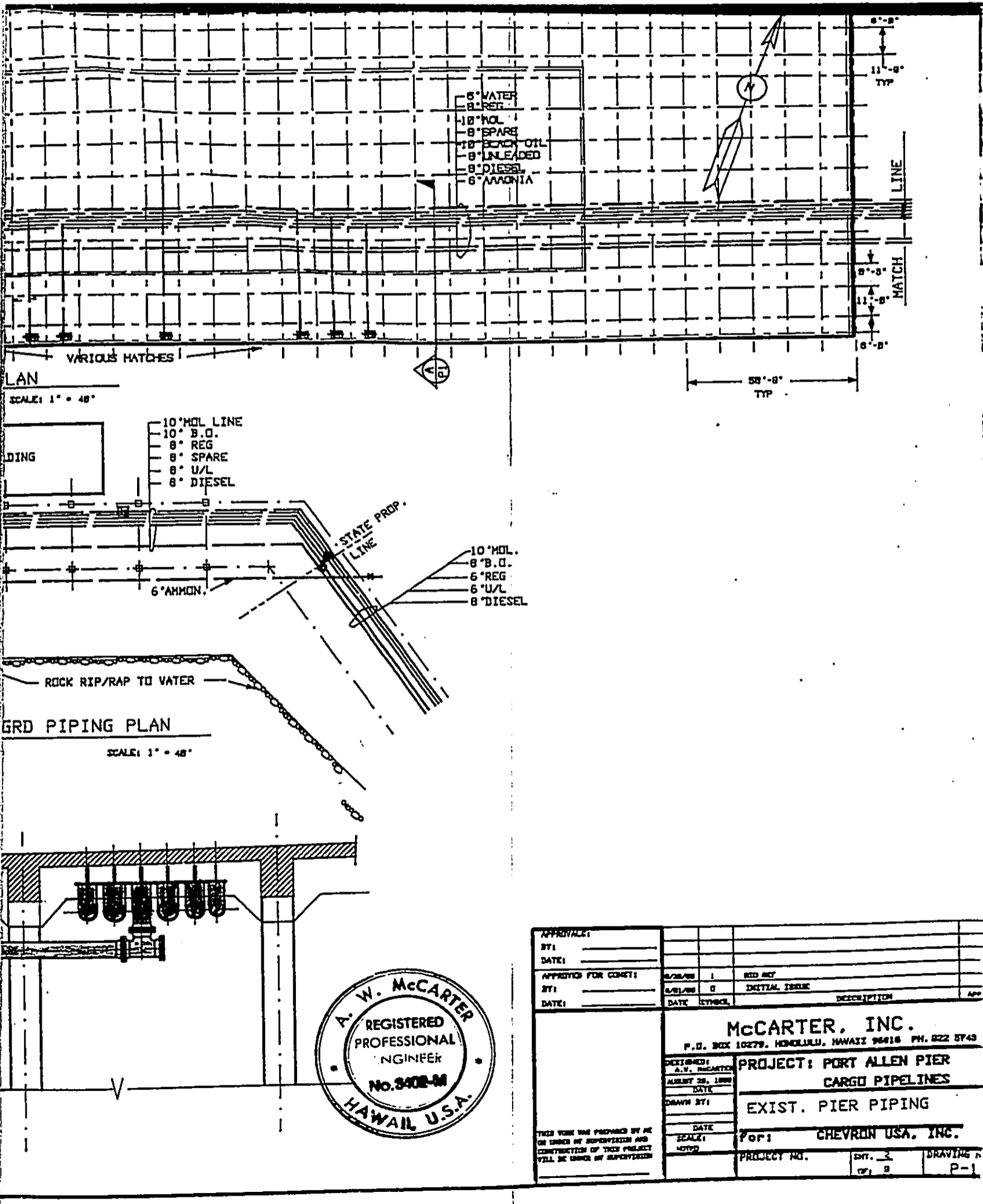


2
P1
EXISTING PIER UNDERGRD PIPING PLAN
SCALE: 1" = 48"



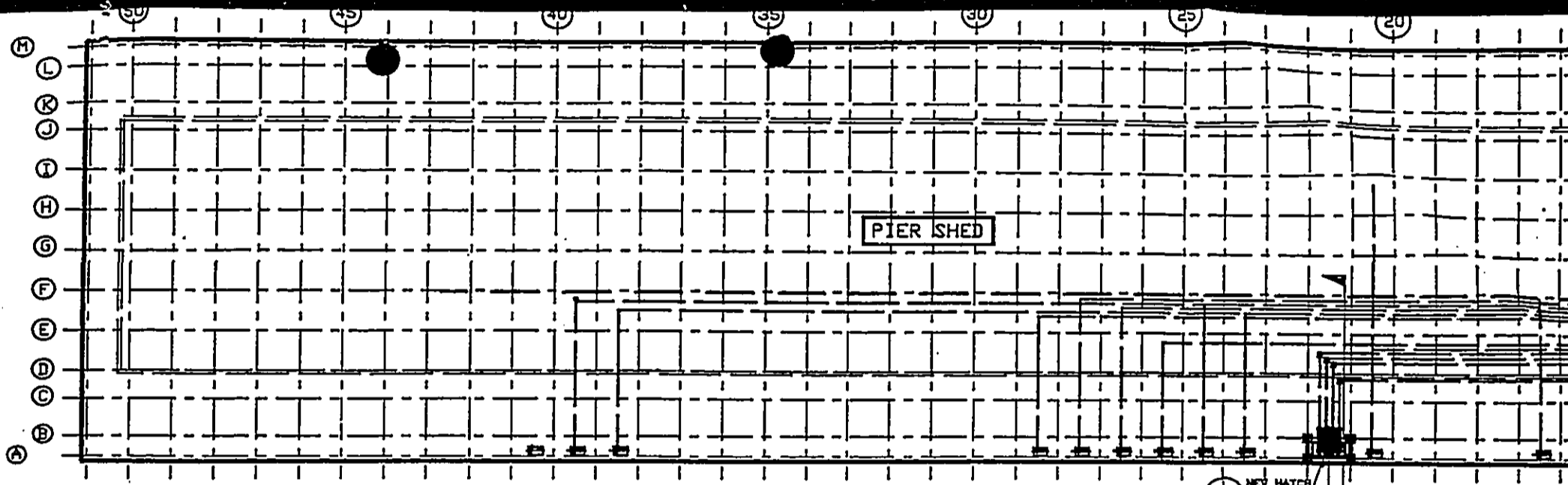
A
P1
TYPICAL SECTION
SCALE: 3/16" = 1'-0"

DOCUMENT CAPTURED AS RECEIVED

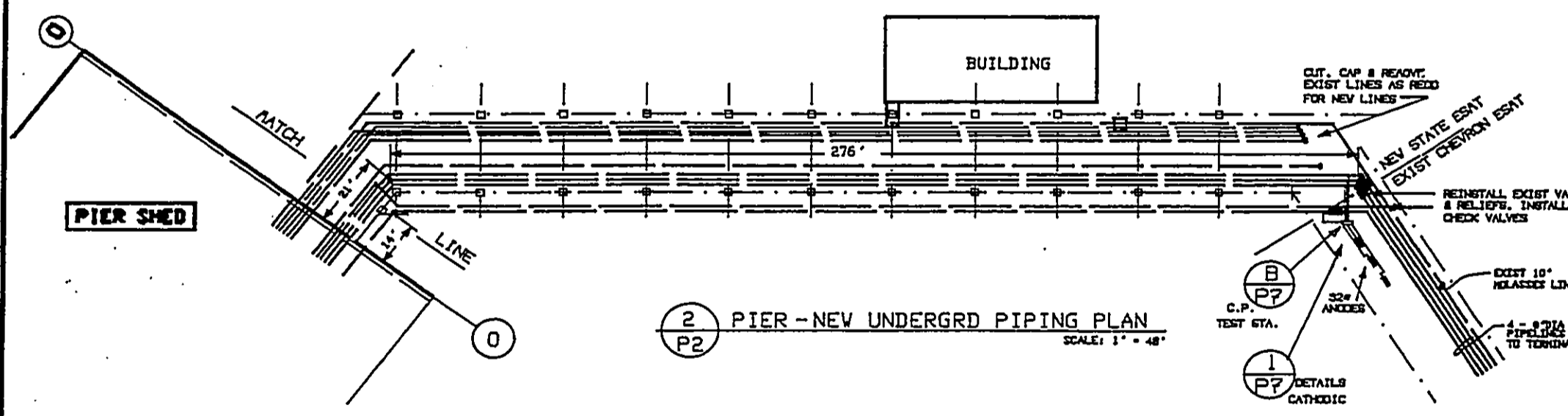


APPROVAL:			
BY:			
DATE:			
APPROVED FOR CONST:	6/26/88	1	RED SET
BY:	6/21/88	0	INITIAL ISSUE
DATE:	DATE	SYMBOL	DESCRIPTION
McCARTER, INC. P.O. BOX 10279, HONOLULU, HAWAII 96816 PH. 822 5743			
DESIGNED:	PROJECT: PORT ALLEN PIER		
A.W. McCarter	CARGO PIPELINES		
DATE:	EXIST. PIER PIPING		
DRAWN BY:	FOR: CHEVRON USA, INC.		
DATE:	PROJECT NO.	SHT. 3	DRAWING NO.
SCALE:		OF 9	P-1
NOTES:	THIS DRAWING WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY SUPERVISION		

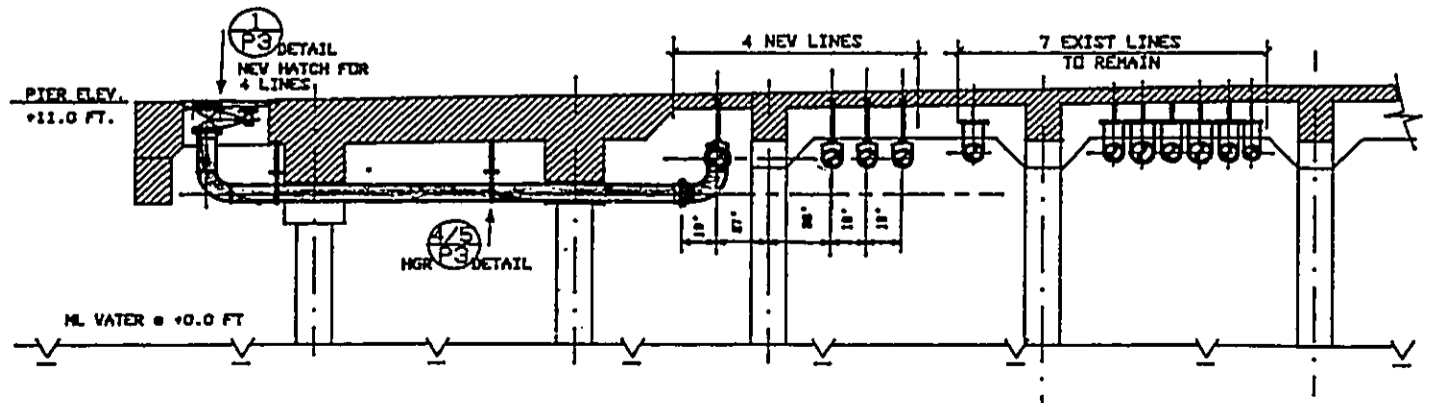
DOCUMENT CAPTURED AS RECEIVED



1 PIER - NEW PIPING PLAN
SCALE: 1" = 48"

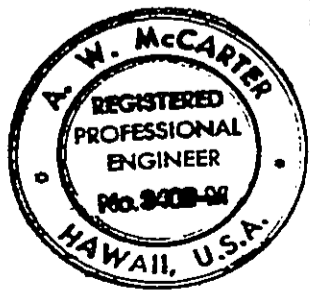
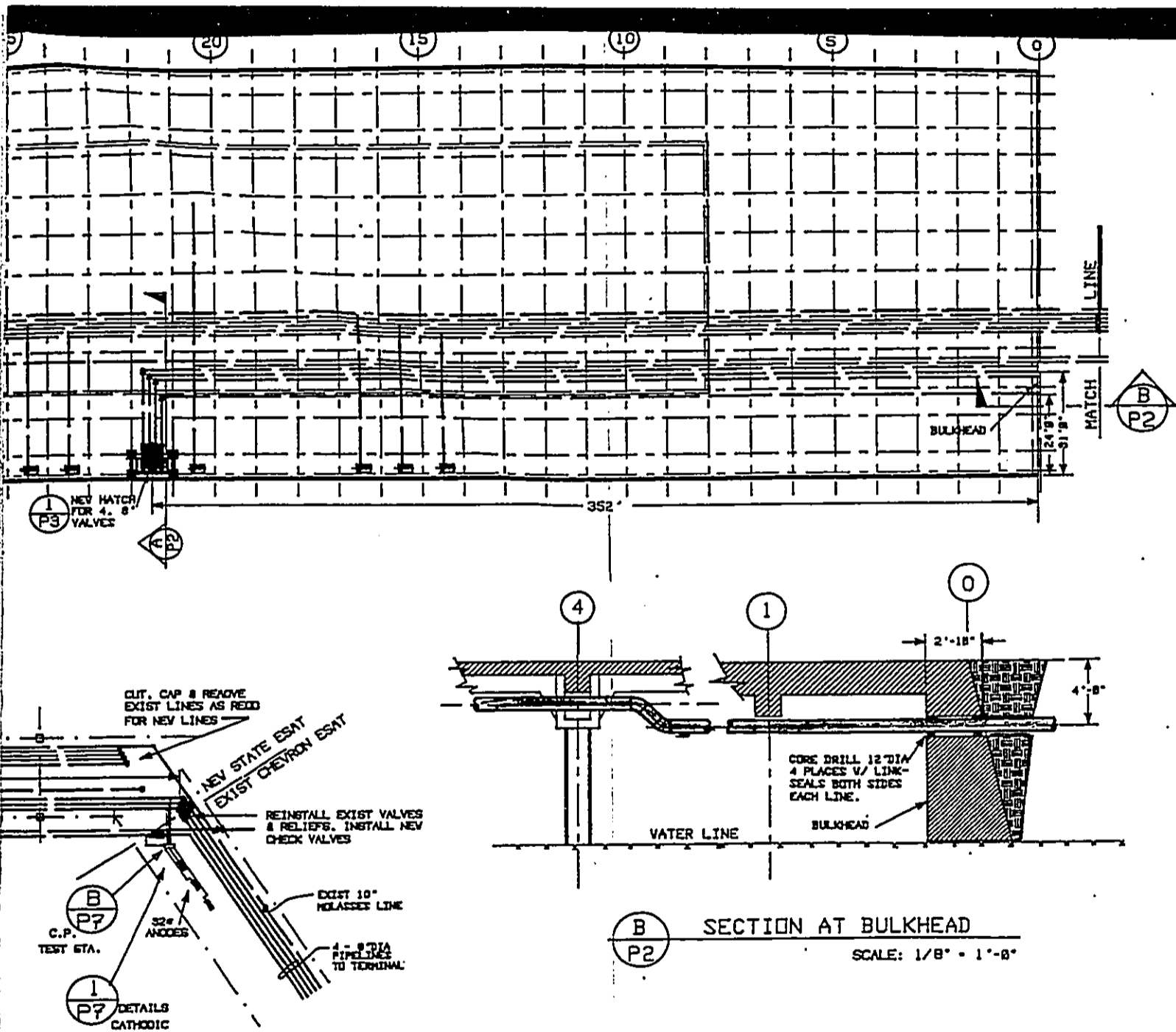


2 PIER - NEW UNDERGRD PIPING PLAN
SCALE: 1" = 48"



A TYPICAL SECTION
SCALE: 1/8" = 1'-0"

DOCUMENT CAPTURED AS RECEIVED



APPROVALS:				
BY:				
DATE:				
APPROVED FOR CONSTRUCTION:	BY:	DATE:	BY:	DATE:
CHECKED BY: A. W. McCarter ALBERT 26, 1988 DATE:		PROJECT: PORT ALLEN PIER CARGO PIPELINES		
		DRAWN BY: DATE: SCALE: NOTED		
THESE WORKS WERE PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY SUPERVISION		PROJECT NO.		
		SHEET 2 OF 3		DRAWING NO. P-2

McCarter, Inc.

P.O. BOX 10279, HONOLULU, HAWAII 96816 PH. 822 5743

PROJECT: PORT ALLEN PIER CARGO PIPELINES

PIER PIPING PLAN. SECTIONS AND DETAILS

For: CHEVRON USA, INC.

PROJECT NO. SHEET 2 OF 3 DRAWING NO. P-2