

## INTEROFFICE CORRESPONDENCE

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Hawaiian Electric Co., Inc.

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July 16, 2004

To: Memo to File  
From: Kerstan J. Wong  
Subject: East Oahu Transmission Project - Phase 1

The purpose of the East Oahu Transmission Project (EOTP) is to address the following transmission problems concerning Oahu's 138kV transmission system in the eastern half of the island:

- Pukele Substation Reliability Concern (on-going)
- Koolau/Pukele Line Overload (starting in 2005)
- Downtown Line Overload (starting in 2023 or earlier if Honolulu Power Plant is retired)
- Downtown Substation Reliability Concern (on-going)

The EOTP is proposed for implementation in two independent phases. As indicated in Exhibit 3 to the Public Utilities Commission (PUC) Application, Phase 1 was estimated for implementation in 2006 to address the Koolau/Pukele Overload Situation in a timely manner and partially address the Pukele Substation and Downtown Substation Reliability Concerns. Phase 2 was estimated for implementation in 2008 to fully address the Pukele Substation Reliability Concern. It is critical that Phase 1 be implemented as soon as possible. This has been re-emphasized by the outage of Pukele Substation on March 3, 2004<sup>1</sup> and the likelihood that the Koolau/Pukele Overload Situation will start occurring in 2005. The proposed project changes described below enhance the timely implementation of Phase 1 by reducing the potential for project delays.<sup>2</sup>

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<sup>1</sup> On the morning of March 3, 2004, service to the Pukele Substation was lost affecting 40,000 customers. Most loads were restored within an hour and a half by returning to service the 138kV transmission line that was out for scheduled maintenance at the time the remaining 138kV line to Pukele Substation was unexpectedly deenergized. A report on the investigation and outage cause was filed with the PUC on May 11, 2004. If the EOTP were installed, the outage impacts could have been minimized to a six second outage duration.

<sup>2</sup> HECO has requested that the PUC be the accepting agency for an environmental assessment ("EA") to be voluntarily prepared by HECO. (An Environmental Impact Statement ("EIS") would be prepared if the PUC finds that the proposed action may have a significant effect on the environment.) There has been some slippage in the estimated time required for the EA and the PUC proceeding, which were estimated to be completed in the 3<sup>rd</sup> quarter of 2004 and the 1<sup>st</sup> quarter of 2005, respectively. The parties and participants submitted a stipulated prehearing order to the PUC in April 2004, which was approved on May 10, 2004. The testimonies of the other parties (which would be filed no sooner than January 15, 2004), HECO's rebuttal testimonies, the hearing, and the briefs are scheduled to follow the completion of the environmental review process. The delay in filing the testimonies of the other parties will allow the

### Change #1

As described on page 6 of the EOTP PUC application filed on December 18, 2003, two new circuits in a single ductline are proposed to connect the existing Archer #46 and Archer #41 underground 46kV circuits at Makaloa Substation with the existing Pukele #2 overhead 46kV circuit near the McCully Substation. These two new circuits are to replace and upgrade the capacity of three existing 46kV circuits that are currently installed between the Makaloa and McCully Substations. It was assumed that a new concrete encased ductline would be needed for the new circuits. This assumption was made because it was unclear at the time of the project's PUC application filing whether the existing ductline for the three existing circuits could be utilized for the two new larger circuits. This was noted on pages 4 and 5 of Ken T. Morikami's testimony, HECO T-7.

Since the PUC project filing, field inspections and further engineering review have confirmed that the existing ductline between Poni Street and the McCully Substation could be utilized for the two new circuits. A new ductline still needs to be constructed from the Makaloa Substation to Poni Street for the two new circuits. In addition, some existing 12kV underground circuits in the existing ductline need to be relocated and modifications are needed on the 12kV system in the project area. The specific scope of work and costs associated with utilizing the existing ductline is described in Attachment 1.

The advantages of implementing the change described in Attachment 1 instead of the original proposal for the two new circuits between Makaloa and McCully Substation are as follows:

- Use of existing ductlines reduces potential project delays by eliminating trenching on Kalakaua Avenue. As noted on page 7 of Thomas L. Harrington's testimony, HECO T-8, there will be traffic impacts during day construction (trenching) on Kalakaua Avenue in the original proposal. Although night construction will lessen traffic impacts along Kalakaua, a Noise Variance is needed from the State Department of Health to allow night construction.
- Use of the existing ductlines reduces the cost to install the two new 46kV circuits by approximately \$900,000. As noted on page 6 of Exhibit HECO-701, the engineering and construction cost in the original proposal to install the two new circuits in a new ductline is approximately \$3.4 million. As noted in Attachment 1, the engineering and construction cost to utilize the existing ductline, where possible, to install the two new circuits is approximately \$2.5 million.
- Use of the existing ductlines avoids trenching along Fern, Hauoli, and Lime Streets.

The disadvantages of implementing the change described in Attachment 1 instead of the original proposal for the two new circuits between Makaloa and McCully Substation are as follows:

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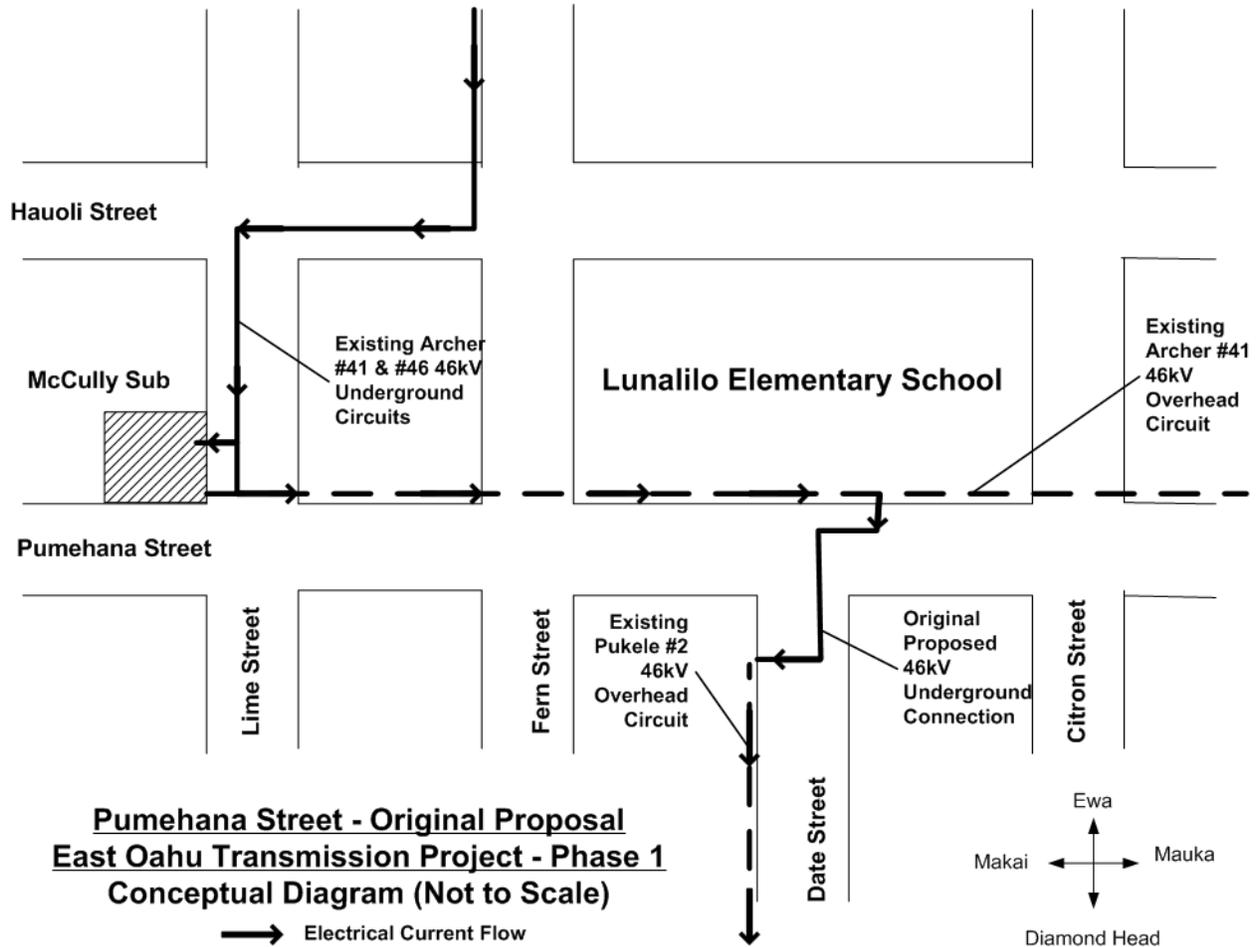
results of the environmental review process to be available to them, as well as the data developed in the distributed generation investigation in Docket No. 03-0371, for which the hearing is expected in December 2004. The environmental review process will be deemed complete when the PUC reviews the EA and determines that an EIS is not required (or if an EIS is required, when the final EIS is accepted). The estimated schedule assumes that an EIS will not be required.

- No spare ducts will be available for the two new circuits in the sections where the existing ductline is being utilized. Therefore, a cable failure that significantly damages the ductline may require a section of new ductline to be installed for the replacement cable.
- A new 12kV cable needs to be installed in existing ductlines (no trenching required) on Kapiolani Boulevard, which is a major thoroughfare. However, installing the cables at night can mitigate traffic concerns. Cable installation at night does not require a Noise Variance from the Department of Health, because no trenching or heavy machinery work is involved.

Based on the above, it is proposed that Change #1 replace the original proposal for the installation of the two new 46kV circuits between Makaloa and McCully Substations. Change #1 reduces the chances for project delays, which enhances the timely implementation of Phase 1, and results in project cost savings.

Change #2

As described on page 7 of the EOTP PUC application filed on December 18, 2003, one new 46kV circuit in a single ductline is proposed to connect the existing Archer #41 overhead circuit on Pumehana Street with the existing Pukele #2 overhead circuit at the intersection of Date and Pumehana Streets.<sup>3</sup> This is depicted conceptually in Figure 1 below.

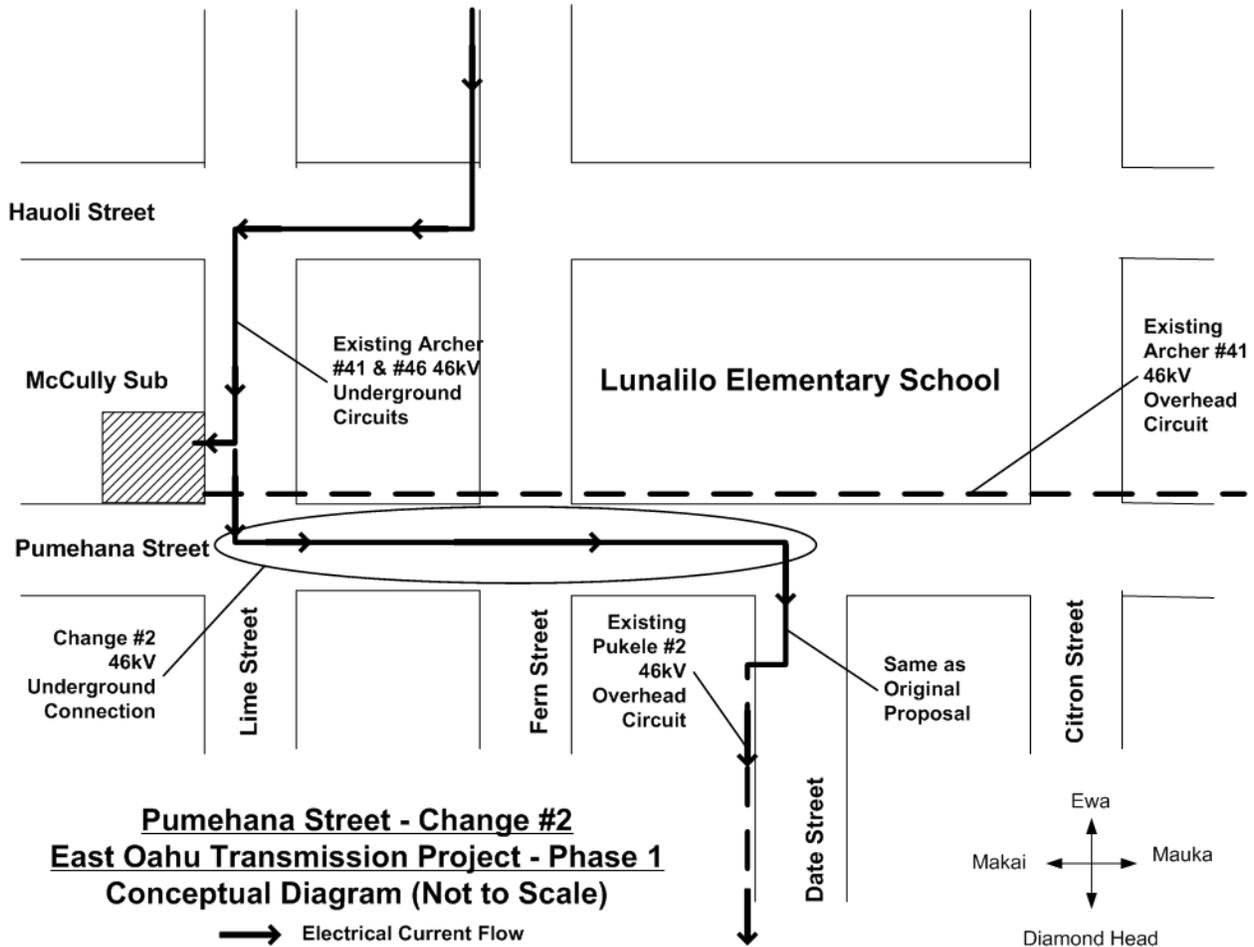


**Figure 1 – Conceptual Diagram showing electrical connections originally proposed for the Pumehana Street area for the East Oahu Transmission Project – Phase 1.**

As noted on pages 9 and 10 of Ken T. Morikami’s testimony, HECO T-7, one of the reasons this new circuit is proposed for underground construction is to avoid potential delays in implementing Phase 1 due to public opposition with regards to overhead construction.

<sup>3</sup> One of the objectives for this portion of the project is to electrically connect the Archer #46 46kV underground circuit at McCully Substation to the Pukele #2 46kV overhead circuit that ends on Date Street. The proposal in the Application utilizes a portion of the Archer #41 46kV overhead circuit on Pumehana Street and the new underground 46kV connection in the Date and Pumehana Streets intersection to accomplish this objective. For simplicity, the “physical” connection of the original proposal is described in the Application and other supporting testimonies as opposed to the “electrical” connection, which would be more difficult for the layperson to follow.

Since the PUC project filing, further engineering review has identified an alternative connection point for these circuits, which maintains the operational flexibility of the existing 46kV circuit configurations, while helping to reduce potential public opposition to this portion of the project. The proposed Change #2, as described in Attachment 2, would maintain the existing operating condition of the Archer #41 46kV overhead circuit on Pumehana Street, which today is essentially no current flow under normal operating conditions. This would be accomplished by extending the underground connection point between the Archer #41 46kV circuit and the Pukele #2 46kV circuit from the Date and Pumehana Streets intersection to the Lime and Pumehana Streets intersection (McCully Substation). This is shown conceptually as shown in Figure 2 below.



**Figure 2 - Conceptual Diagram showing electrical connections proposed for the Pumehana Street area for the East Oahu Transmission Project – Phase 1 as part of Change #2.**

The advantages of implementing the change described in Attachment 2 instead of the original proposal for connecting the Archer #41 and Pukele #2 circuits on Pumehana Street are as follows:

- The new scope of work maintains the same level of operational flexibility near the McCully Substation, as is available today. Currently, the existing Archer #41 46kV overhead circuit on Pumehana Street has essentially no current flow under normal operating conditions, which makes this circuit readily available for use in contingency

situations on the 46kV system. For example, maintenance or unplanned outages of certain 46kV lines being served from Pukele or Archer Substations could be manually backed up by this circuit. With the initially proposed connection, this portion of the Archer #41 46kV overhead circuit would be used on a daily basis, carrying approximately 400 amperes of current under normal operating conditions. Therefore, the use of this portion of the circuit on a daily basis limits its available capacity to address contingency situations on the 46kV system.

- The new scope of work reduces a potential area of controversy by maintaining the status quo of essentially no current flow under normal operating conditions on the Archer #41 46kV overhead circuit on Pumehana Street, adjacent to the Lunalilo Elementary School. Given the concern expressed by some area residents and their legislators regarding the proposed new power lines, particularly in the immediate area of this school, minimizing changes in the operation of the system in this particular area reduces potential project delays brought on by heightened public concern over the project.

The disadvantages of implementing the change described in Attachment 2 instead of the original proposal for connecting the Archer #41 and Pukele #2 circuits on Pumehana Street are as follows:

- Increases potential traffic impacts on Pumehana Street during construction.
- Increases the amount of roadway trenched from 130 feet to 720 feet thereby increasing the cost to connect the Archer #41 and Pukele #2 46kV circuits by approximately \$258,000. As noted on page 7 of Exhibit HECO 701, the engineering and construction cost to connect these circuits are approximately \$220,000. As noted in Attachment 2, the engineering and construction cost to have the connection point of these circuits at the intersection of Pumehana and Lime Streets is approximately \$478,000.

Based on the above, it is proposed that Change #2 replace the original proposal for connecting Archer #41 and Pukele #2 46kV circuits on Pumehana Street. Change #2 will maintain the existing operational condition of the Archer #41 overhead circuit on Pumehana Street of essentially no electrical current flow. Change #2 should help dampen potential public opposition to this portion of the project and thereby minimize potential project delays. As noted at the beginning of this memo, it is critical that Phase 1 be implemented as soon as possible. While the cost and the amount of trenching increases with Change #2, when compared to the total cost (~\$41.6 million) and the amount of trenching (~4,600 feet) for Phase 1, these increases are minimal.

**ATTACHMENT 1**

# INTEROFFICE CORRESPONDENCE

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**Hawaiian Electric Co., Inc.**

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July 16, 2004

To: K. J. Wong  
From: E. F. Oshiro  
Subject: East Oahu Transmission Project – Phase 1  
Reuse Existing Ducts from Makaloa to McCully Substations

This memo describes the modifications that would be required to reuse the existing ducts from Makaloa to McCully Substation to upgrade the three existing 46kV circuits that run between these two substations.

### Existing Ductline Between Makaloa and McCully Substation

The existing common ductline between Makaloa and McCully Substation is composed of six 5” ducts. This common ductline contains three 46 kV circuits and three 12 kV circuits. Each of the three 46 kV circuits occupies a single duct and each of the three 12 kV circuits occupies a single duct. The higher ampacity 46 kV cables that are required for EOTP would require three ducts for each circuit. Therefore, six ducts are required for the two new 46 kV circuits.

Removing the existing three 46 kV lower ampacity circuits frees-up three of the six ducts within the existing common ductline. Removal of the three 12 kV circuits is required to free-up three additional ducts. Modifications to the 12 kV system in the area would allow the 12 kV circuits in the ductline to be removed.

After reviewing the loading in the area, the following components were identified as needing to be completed to free-up the existing ducts:

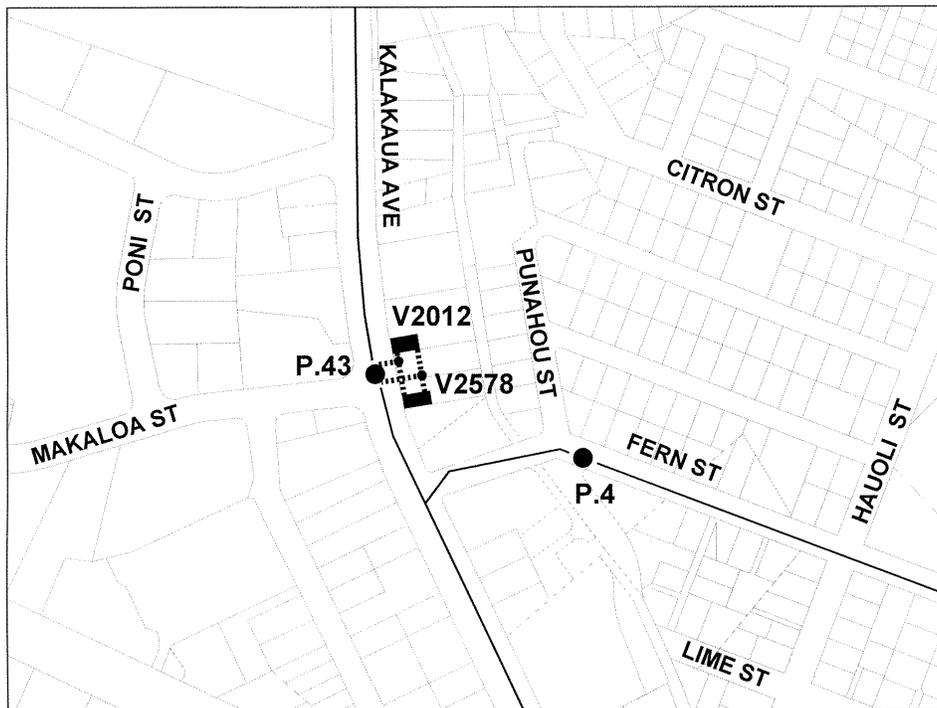
- Serve 12 kV vaults 2012 and 2578 on Kalakaua Avenue
- Install Makaloa #1 46-12 kV transformer and switchgear at Makaloa Substation
- Serve 12 kV loads affected by the removal of the McCully Substation Shopping Center 12 kV circuit
- Serve 12 kV loads affected by the removal of the McCully Substation Pawa Kai 12 kV circuit
- Serve 12 kV loads affected by the removal of the McCully Substation Kona Street 12 kV circuit
- Construct new ductline from manhole P2 fronting Makaloa Substation to manhole P4 at Poni Street

**ATTACHMENT 1**

- Remove existing 46 kV and 12 kV cables from Makaloa Substation to McCully Substation
- Install new 46 kV cables from Makaloa to McCully Substation
- 12 kV reconnections at McCully Substation
- Remove McCully #4 46-12 kV transformer and switchgear

The work required for each of these components is described in more detail in the following sections.

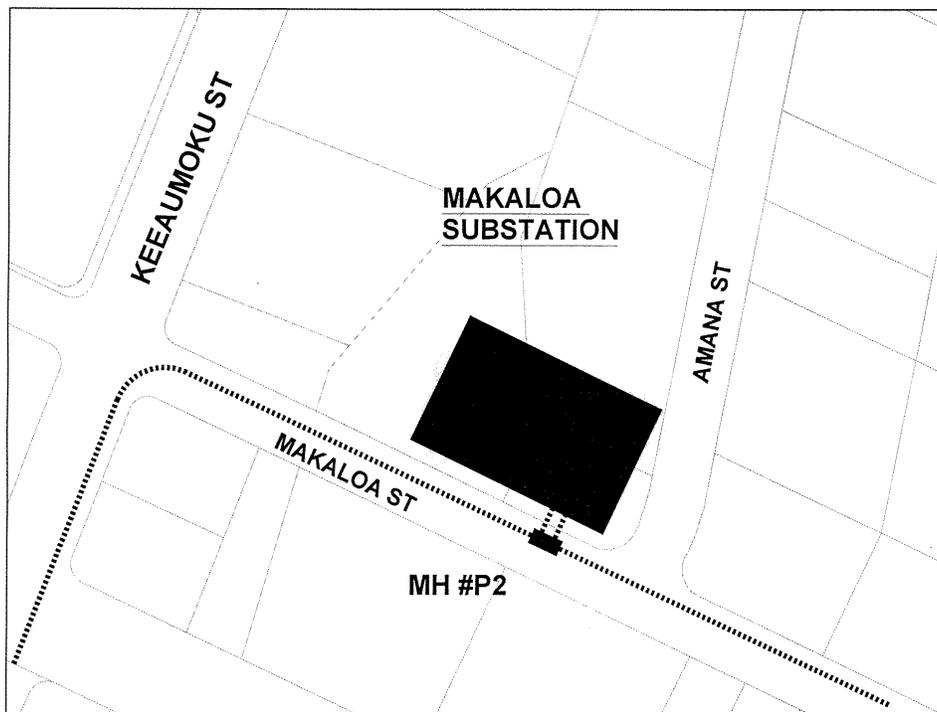
Serve 12 kV Vaults 2012 and 2578 on Kalakaua Avenue



With the 12 kV circuit reconnections as described below, all 12 kV vaults in the Makaloa Substation to McCully Substation area are fed. The exceptions are vaults 2012 and 2578 on Kalakaua Avenue. The overhead 12 kV McCully 5 circuit that is nearby can feed these vaults. Work required would involve relocating a 12 kV group operated switch from pole 43 near the intersection of Makaloa Streets and Kalakaua Avenue to pole 4 on Fern Street near Punahou Street. Pole 4 must be replaced with a slightly thicker pole. A double riser must be constructed on pole 43 to intercept the existing 12 kV circuits that feed these two vaults. Pole 43 must also be replaced with a slightly thicker pole. From the base of the pole, approximately 5 feet of duct must be constructed within the sidewalk to the handhole feeding these two vaults.

**ATTACHMENT 1**

Install Makaloa #1 46-12 kV Transformer and Switchgear



The source for the 12 kV circuits to be removed is from McCully Substation. In order to serve a part of these loads, a new 46-12 kV transformer and switchgear must be installed at Makaloa Substation. In addition to work at Makaloa Substation already identified in the PUC application, this item involves the installation of a new 46-12 kV, 10/12.5 MVA transformer and switchgear with associated protective relaying at the Makaloa Substation located on Makaloa Street near Amana Street. This item includes the installation of one 46-12 kV, 10/12.5 MVA transformer; one 15 kV two circuit switchgear; one 6' X 14' handhole and one set of 46 kV interrupters. Site development work includes installation of approximately 250 feet of 3-5" ducts from within the substation to manhole P2, the first manhole in Makaloa Street fronting the substation.

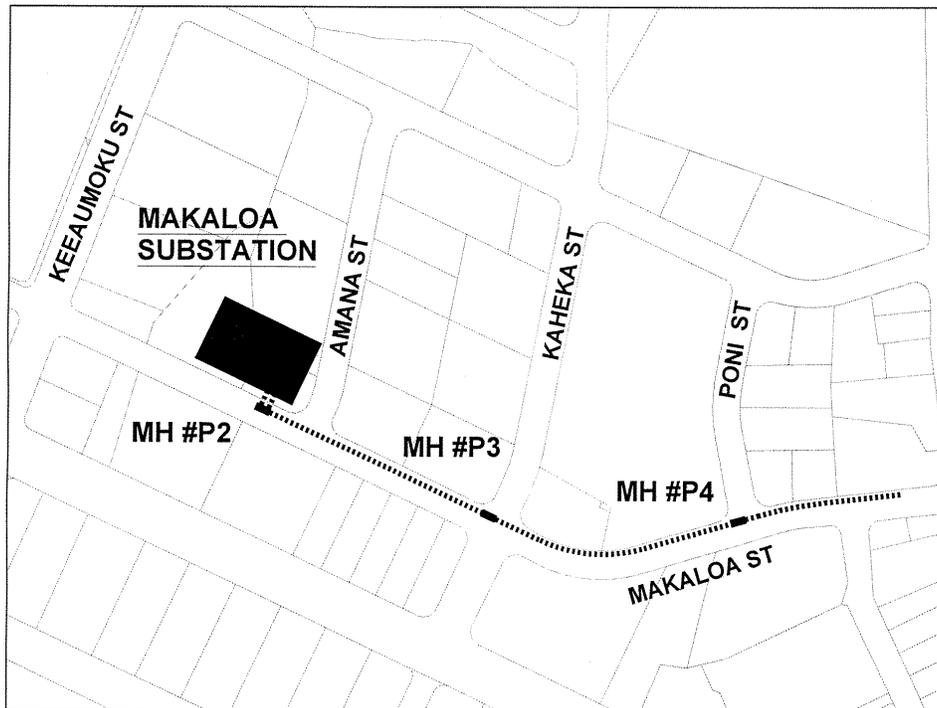
Within manhole P2, the McCully Shopping Center 12 kV circuit will be cut and split into two circuits. Each of the two new circuits will be spliced within the manhole so its source will come from the new Makaloa #1 46-12 kV transformer.

Serve 12 kV Loads Affected by the Removal of the McCully Substation Shopping Center 12 kV Circuit

The vaults fed by the McCully Substation Shopping Center 12 kV circuit are all West of Makaloa Substation. With the installation of the new Makaloa #1 transformer, the source for the McCully Substation Shopping Center 12 kV circuit is Makaloa #1 transformer.

**ATTACHMENT 1**

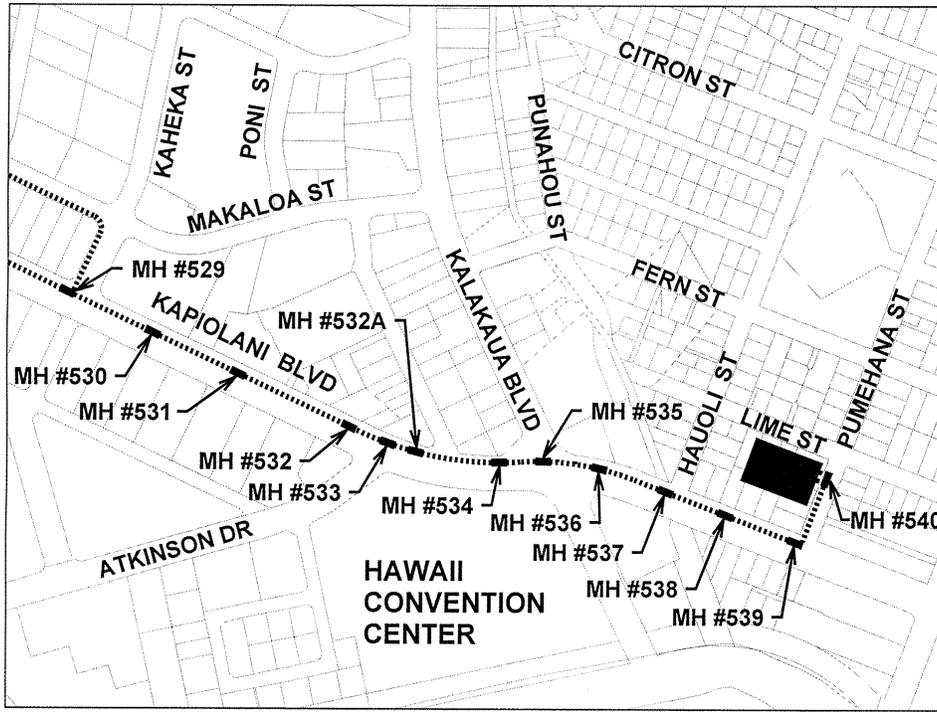
Serve 12 kV Loads Affected by the Removal of the McCully Substation Pawaa Kai 12 kV Circuit



One 12 kV circuit from Makaloa #1 transformer will feed the vaults currently fed by the McCully Substation Shopping Center 12 kV circuit. The second 12 kV circuit from Makaloa #1 transformer will be spliced in manhole P3 to the existing McCully Substation Pawaa Kai 12 kV circuit. Beyond this tap point going back to McCully Substation, the McCully Substation Shopping Center and McCully Substation Pawaa Kai 12 kV circuits can be cut. The McCully Shopping Center 12 kV circuit can be cut in manhole P3 and is ready to be removed. The McCully Substation Pawaa Kai 12 kV circuit can be cut in manhole P4 and is ready to be removed. The source now for the McCully Substation Pawaa Kai 12 kV circuit is Makaloa #1 transformer.

**ATTACHMENT 1**

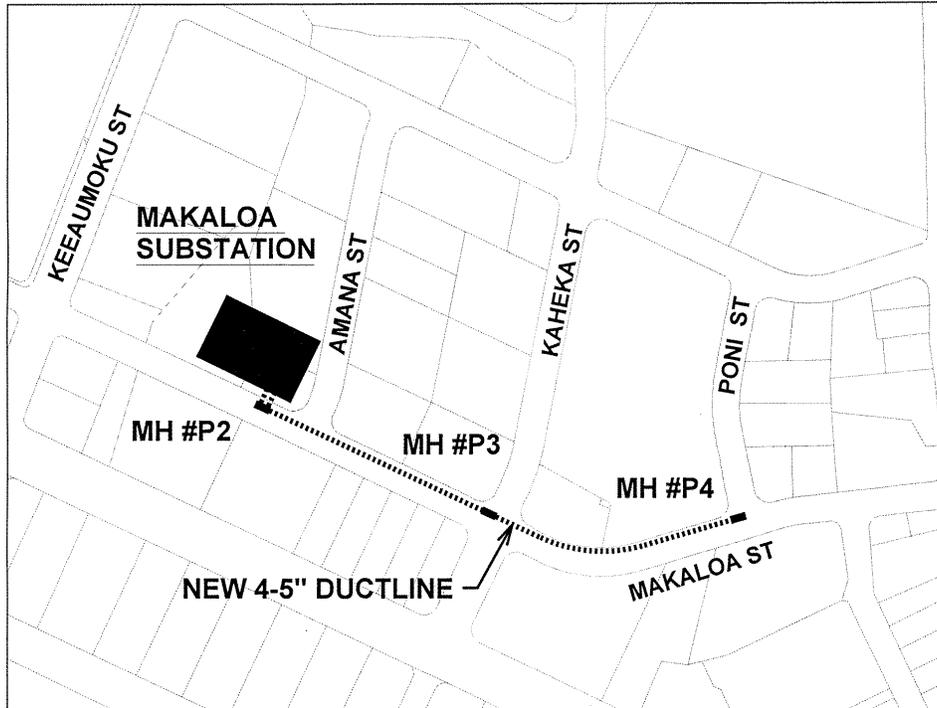
Serve 12 kV Loads Affected by the Removal of the McCully Substation Kona Street 12 kV Circuit



The McCully Substation Kona Street 12 kV circuit will be rerouted in spare ducts on Kapiolani Boulevard from McCully Substation to manhole 529 on Kapiolani Boulevard at Kaheka Street. The majority of the route from manhole 540 on Pumehana Street outside McCully Substation to manhole 529 has available spare ducts. From manhole 540 on Pumehana Street to manhole 533 at Kalauokalani Street, an idle section of circuit must be removed to free-up a 4 inch duct. From Kalauokalani Street to Kaheka Street, there are either spare ducts or ducts that can easily be freed-up by removing idle circuits or grounds. In addition, in the section from manhole 530 located on Kapiolani Boulevard near the Pan Am Building, to manhole 529 at Kaheka Street, a fused feeder must be moved from a 4" duct to a 3-1/2" duct. Once this work is completed, new 12 kV, 750 kcm cable can be installed and spliced in manhole 540 fronting McCully Substation and manhole 529 at Kaheka Street. The McCully Substation Kona Street 12 kV circuit can be cut and is ready to be removed to free-up the existing ductlines between Makaloa and McCully Substation.

**ATTACHMENT 1**

Construct New Ductline from Manhole P2 fronting Makaloa Substation to Manhole P4 at Poni Street



Approximately 1,000 feet of 4-5" ductline must be constructed from manhole P2 fronting Makaloa Substation to manhole P3 and continuing on to manhole P4 at the intersection of Makaloa and Poni Streets. In this section the 12 kV circuits cannot be removed without significant other work that would be necessary to feed the 12 kV vaults in the area.

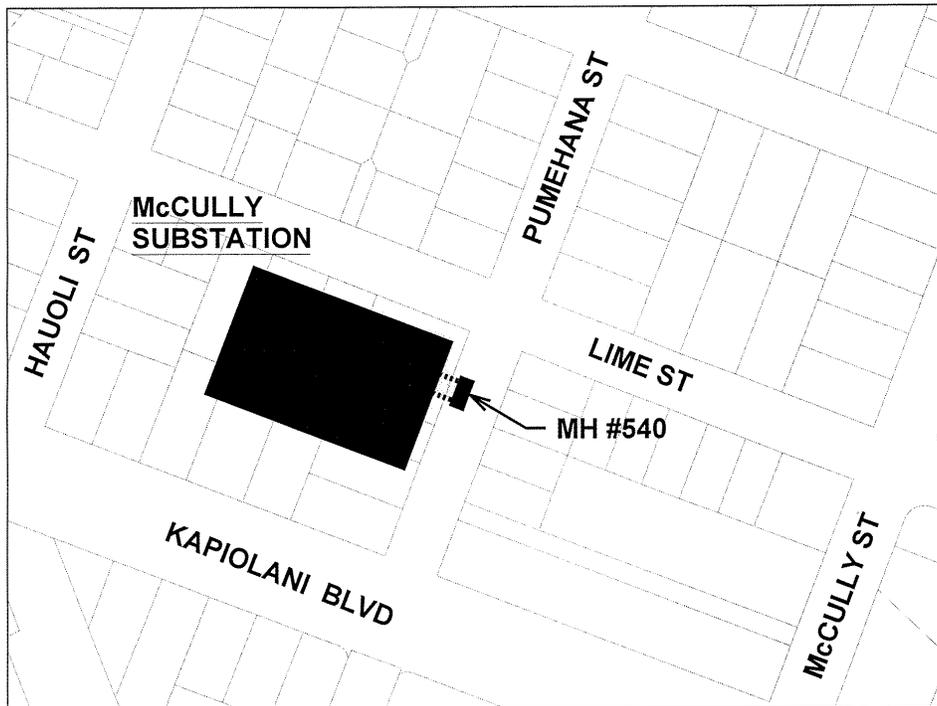
New ductline construction will be as described in HECO T-8 and HECO-804 filed on December 18, 2003, as a part of HECO Docket no. 03-0417. It is recognized that this work will take place in a congested, urban environment. Traffic control, noise mitigation, dust control, access to businesses and homes and community relations will be considered. It is anticipated that trenching work in this area would take place at night.

Remove Existing 46 kV and 12 kV Cables from Makaloa Substation to McCully Substation  
Procedures required to remove the existing circuits and reuse the ductlines are described in a February 27, 2004 Technical Memorandum prepared by TLH Management Services Inc.

Install New 46 kV Cables from Makaloa to McCully Substation  
Once the cables have been removed, the ducts are ready to be reused to install new 46 kV cables. The cable installation would be as described in HECO-804.

**ATTACHMENT 1**

12 kV Reconnections at McCully Substation



In order to ensure that a 46 kV transformer failure will not result in both circuits feeding a 12 kV vault to be out of service, 12 kV reconnections are required at McCully Substation. Specifically, the McCully Substation Kona Street 12 kV circuit should be moved from McCully #5 transformer to McCully #6 transformer. In addition, the Manoa-McCully 12 kV circuit should be moved from McCully #4 transformer to McCully #5 transformer. These reconnections can be made in manhole 540 on Pumehana Street fronting McCully Substation.

Remove McCully #4 46-12 kV Transformer and Switchgear

After Makaloa #1 transformer is installed and 12 kV reconnections are made, the McCully #4 transformer and switchgear are no longer required and can be removed and reused at another substation location as the need arises.

Cost Summary

The engineering and construction costs for all of the above described work are estimated to be \$2,548,000<sup>1</sup>. \$1,853,000 is associated with the distribution work and \$695,000 is associated with the substation work.

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<sup>1</sup> Since the PUC application filing for EOTP, engineers were able to obtain more detailed information on some of the routes proposed in the application. For Makaloa Street, it was confirmed that numerous underground utilities occupy the street. With little space left for a new ductline, HECO facilities will have to be located deeper than previously determined. In addition, soil conditions are poor along Makaloa Street requiring HECO to over excavate and create a base of fine gravel in a fabric filter to support the ductline. The engineering and construction cost here includes the cost associated with this change.

**ATTACHMENT 1**

Conclusion

Utilization of existing ductlines is a fairly common practice. In order to reuse the existing ductlines between Makaloa and McCully Substations, work must be done to free-up these ducts. HECO has identified a number of project components that must be completed to free-up these ducts. Constructing a section of 4-5" ducts from manhole P2 fronting Makaloa Substation to manhole P4 at the intersection of Makaloa and Poni Streets will take place in a congested, urban environment. Traffic control, noise mitigation, dust control, access to businesses and homes and community relations will be considered.

**ATTACHMENT 2**

# INTEROFFICE CORRESPONDENCE



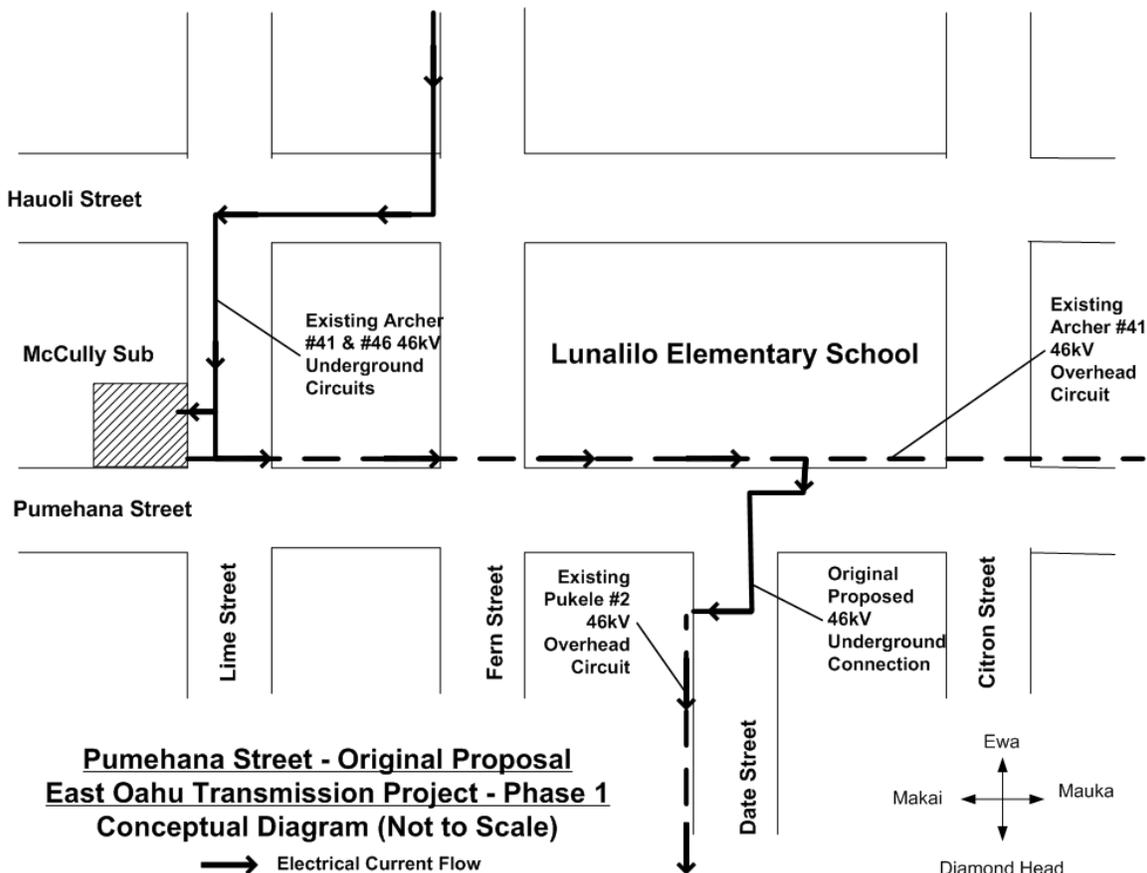
Hawaiian Electric Co., Inc.

July 16, 2004

To: K. J. Wong  
From: E. F. Oshiro  
Subject: East Oahu Transmission Project – Phase 1  
Pumehana Street 46 kV Underground

This memo describes the modifications that would be required to tie the Archer #46 46kV circuit to the Pukele #2 46 kV circuit in an alternative manner to what is proposed in HECO's PUC application filed on December 18, 2003 (Docket No. 03-0417).

### Original Proposal

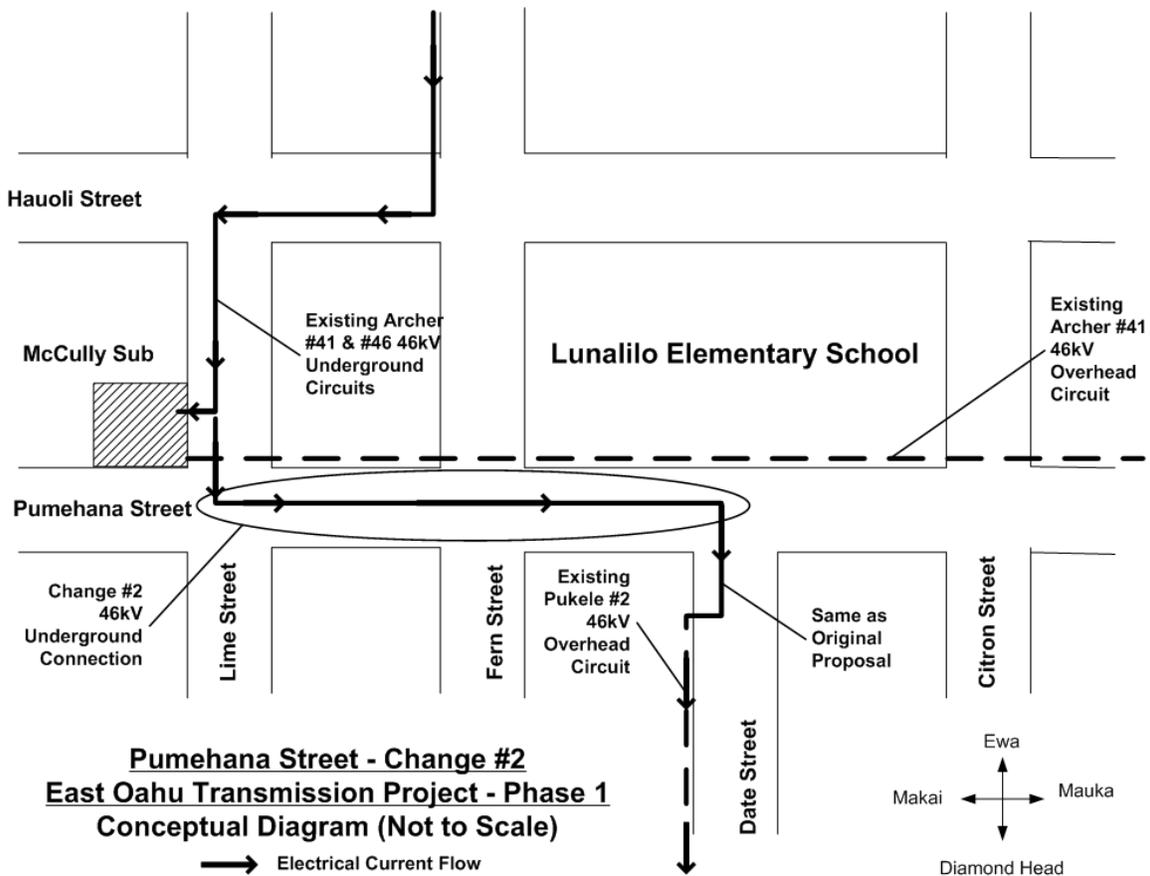


**ATTACHMENT 2**

The original proposal in the Application utilizes a portion of the Archer #41 46kV overhead circuit on Pumehana Street and the new underground 46kV connection in the Date and Pumehana Streets intersection to accomplish the objective of connecting the Archer #46 and Pukele #2 circuits electrically.<sup>1</sup> This is depicted conceptually above. The Archer #46 circuit extends all the way to McCully Substation. The Pukele #2 circuit ends at pole 5 near the intersection of Date and Pumehana Streets.

Proposed Modifications

An alternative way to connect the Archer #46 and Pukele #2 circuits is to make a direct connection between these circuits and not utilize the existing Archer #41 46kV overhead circuit. This is shown conceptually below.



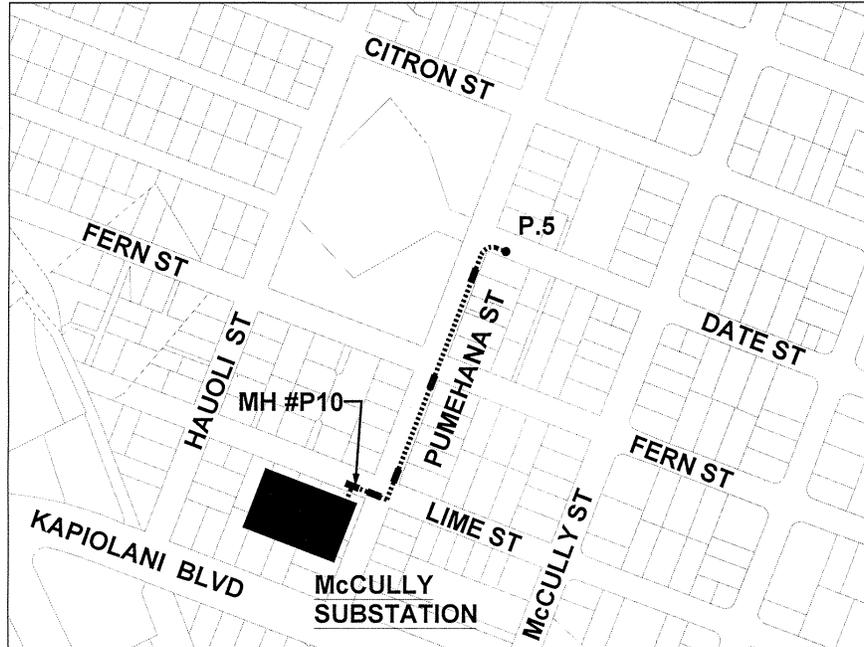
To connect the Archer #46 and Pukele #2 circuits in the alternative manner shown above, 720 feet of new 4-5" ducts in a common ductline must be constructed from manhole P10 fronting McCully Substation on Lime Street to pole 5. The majority of this ductline will be constructed in

<sup>1</sup> For simplicity, the "physical" connection of the original proposal is described in the Application and other supporting testimonies as opposed to the "electrical" connection, which would be more difficult for the layperson to follow.

## ATTACHMENT 2

the Diamond Head lane of Pumehana Street due to the presence of existing utilities in the Ewa lane.

Two new manholes will be required. The first manhole will be located on Pumehana Street at the intersection of Fern Street. A second manhole is required on Pumehana Street at the intersection of Date Street.



New ductline construction will be as described in HECO T-8 and HECO-804 filed on December 18, 2003, as a part of HECO Docket No. 03-0417. It is recognized that this work will take place in a congested, residential environment. Traffic control, noise mitigation, dust control, access to homes and community relations will be considered.

Once the new ductline has been constructed, new 46 kV cables can be installed. The cable installation would be as described in HECO-804.

Within manhole P10, the new 46 kV cables will be spliced to the existing Archer #46 cables. At pole 5, the cables will riser up and connect to the existing 46 kV overhead circuit on Date Street.

### Cost Summary

The engineering and construction costs associated with this work are \$478,000<sup>2</sup>.

### Existing Overhead Circuits

Constructing this new underground ductline means that the existing overhead circuit located on the Ewa side of Pumehana Street will not be used. Currently under normal conditions, there is

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<sup>2</sup> Since the PUC application filing for EOTP, engineers were able to obtain more detailed information on some of the routes proposed in the application. Soil conditions are poor along Pumehana Street requiring HECO to over excavate and create a base of fine gravel in a fabric filter to support the ductline. The engineering and construction cost here includes the cost associated with this change.

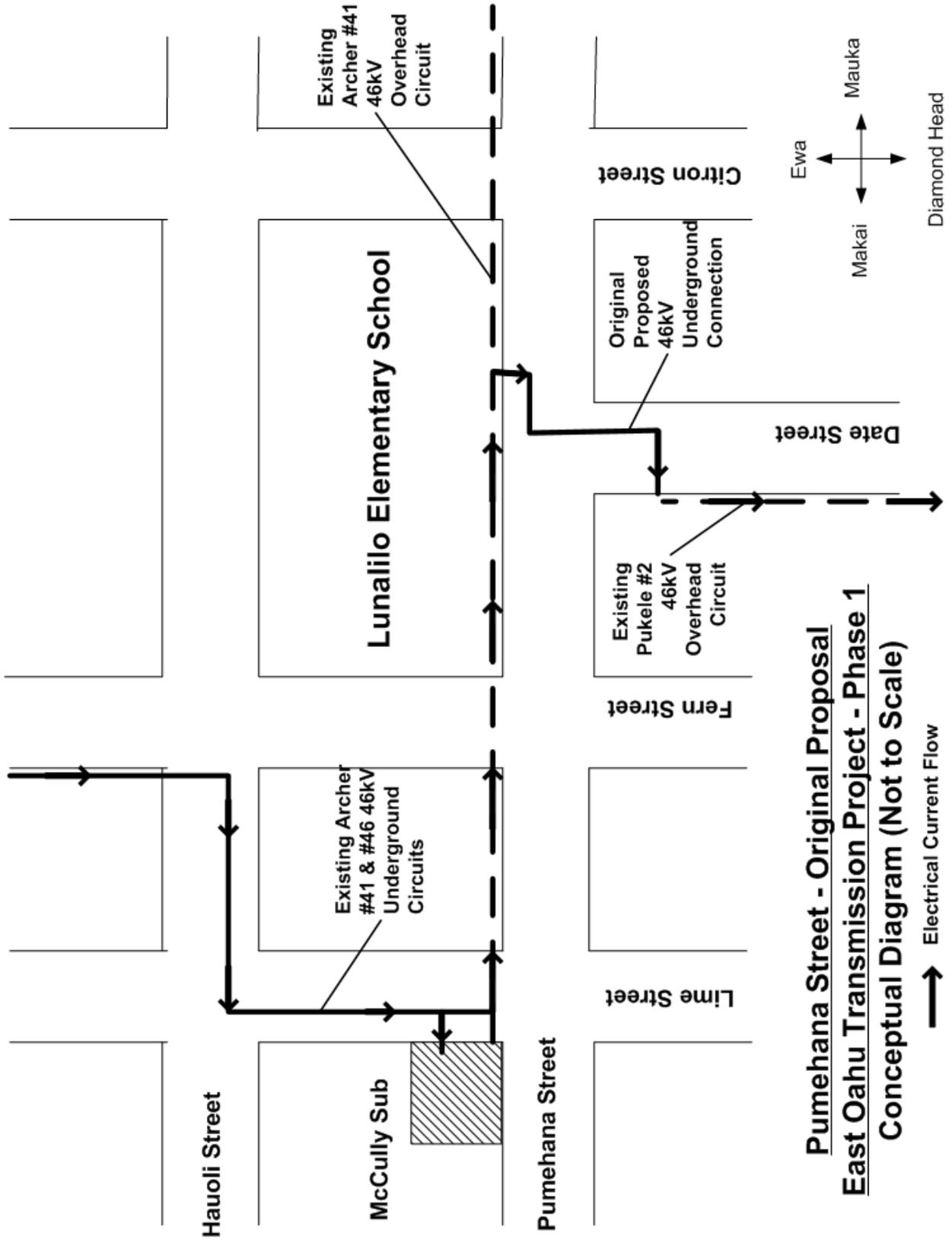
## **ATTACHMENT 2**

no current flow in this section of overhead line. After construction of this ductline, there will still be no current flow in this section of overhead line under normal conditions.

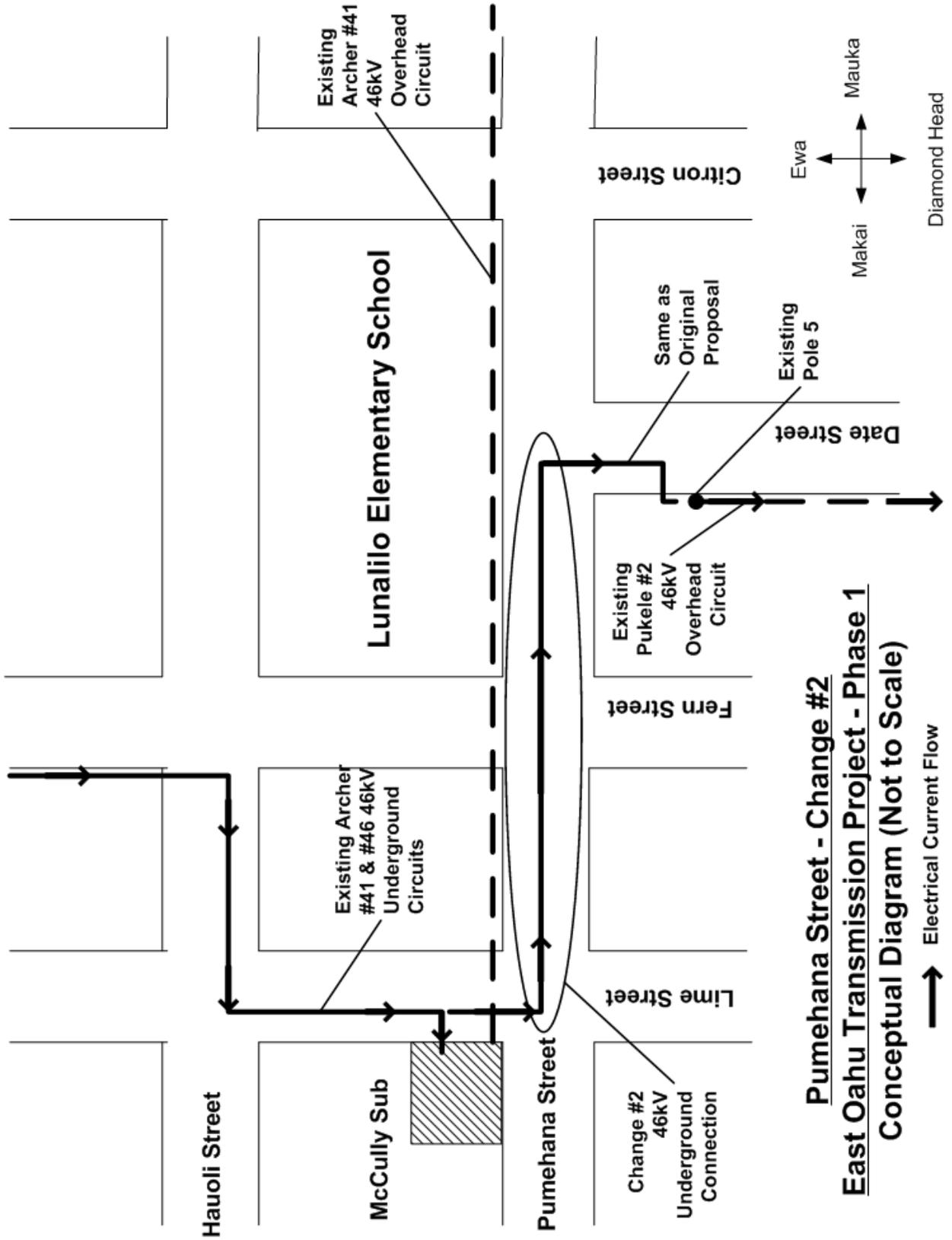
### Conclusion

Construction of this ductline is similar to construction activities HECO normally undertakes. An advantage of building this new ductline is that there will be no current increase in the existing overhead circuit located on the Ewa side of Pumehana Street.

It is recognized that this work will take place in a congested, residential environment. Traffic control, noise mitigation, dust control, access to homes and community relations will be considered.



**Pumehana Street - Original Proposal**  
**East Oahu Transmission Project - Phase 1**  
**Conceptual Diagram (Not to Scale)**



OFFICE OF THE MANAGING DIRECTOR  
**CITY AND COUNTY OF HONOLULU**

530 SOUTH KING STREET, ROOM 306 • HONOLULU, HAWAII 96813  
TELEPHONE: (808) 523-4331 • FAX: (808) 523-4242 • INTERNET: [www.co.honolulu.hi.us](http://www.co.honolulu.hi.us)

JEREMY HARRIS  
MAYOR



BENJAMIN B. LEE, FAIA  
MANAGING DIRECTOR

MALCOLM J. TOM  
DEPUTY MANAGING DIRECTOR

January 27, 2004

**MEMORANDUM**

TO: ERIC CRISPIN, DIRECTOR  
DEPARTMENT OF PLANNING AND PERMITTING

CLIFF JAMILE, CHIEF ENGINEER  
BOARD OF WATER SUPPLY

TIMOTHY STEINBERGER, DIRECTOR  
DEPARTMENT OF DESIGN AND CONSTRUCTION

LARRY LEOPARDI, DIRECTOR  
DEPARTMENT OF FACILITY MAINTENANCE

FRANK DOYLE, DIRECTOR  
DEPARTMENT OF ENVIRONMENTAL SERVICES

CHERYL SOON, DIRECTOR  
DEPARTMENT OF TRANSPORTATION

BILL BALFOUR, JR., DIRECTOR  
DEPARTMENT OF PARKS AND RECREATION

DAVID ARAKAWA, CORPORATION COUNSEL  
DEPARTMENT OF THE CORPORATION COUNSEL

VIA: MAYOR JEREMY HARRIS

FROM: BENJAMIN B. LEE, FAIA  
MANAGING DIRECTOR

RE: **TRENCHING PERMITS AND REPAVING OF STREETS**

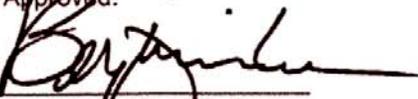
The policy for all trenching work by utility companies on City streets is to repave the street the length of the trench but no less than 12 feet in length from curb to curb. If it is

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a lateral trench, the width of the re-pavement should not be less than 6 feet on each side of the trench.

Please inform all applicable utility companies and governmental agencies and develop procedures to enforce of this policy.

Approved:

  
BENJAMIN B. LEE, FAIA  
Managing Director

Concur:

  
MAYOR JEREMY HARRIS