

BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF HAWAII

In the Matter of the Application of	)	
	)	
THE GAS COMPANY, LLC dba HAWAII	)	Docket No. 2024-0304
GAS	)	
	)	
For Modifications of General Order No. 9	)	
Paragraph 2.3.f.2. Requirements Relating to	)	
Capital Improvements.	)	
	)	

**APPLICANT'S RESPONSE TO THE DIVISION OF CONSUMER ADVOCACY'S
SUBMISSION OF INFORMATION REQUESTS**

and

CERTIFICATE OF SERVICE

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Applicant THE GAS COMPANY, LLC dba HAWAII GAS (“Hawaii Gas,” “HG,” or “Company”), by and through its attorneys, WATANABE ING LLP, respectfully submits its Response to the Division of Consumer Advocacy’s Submission of Information Requests, issued on January 9, 2025.

DATED: Honolulu, Hawaii, January 31, 2025.

/s/ David Y. Nakashima
JEFFREY T. ONO
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Attorneys for Applicant
THE GAS COMPANY, LLC dba HAWAII GAS

DOCKET NO. 2024-0304

THE GAS COMPANY, LLC DBA HAWAII GAS

SUBMISSION OF INFORMATION REQUESTS

CA-IR-1

Ref: Application, at 11.

Hawaii Gas states:

Accordingly, the current \$500,000 threshold burdens Hawaii Gas with unreasonable hardship because (1) the commencement and completion of small capital expenditure projects will continue to be delayed due to regulatory burdens inconsistent with the original intent of the G.O.9 process, and (2) Hawaii Gas and its ratepayers will continue to pay for higher project costs associated with obtaining regulatory approvals under the G.O.9 process.

- a. Please explain and provide the circumstances of when the current filing threshold has delayed the commencement and completion of capital expenditure projects. In the response, please identify each application submitted by Hawaii Gas for capital expenditure projects that were delayed due to the regulatory burdens in meeting the filing requirements of G.O. 9.
- b. Please explain the hardships that Hawaii Gas has in obtaining regulatory approvals under the G.O. 9 process.

- c. Please provide a listing of the utility projects that Hawaii Gas has completed from 2015 through 2024, which includes the following:
1. Project name and a brief description of the Project.
 2. The actual total cost of the project.
 3. Whether the project was approved by the Commission in accordance with G.O. 9. Please include the docket number and decision and order number.
 4. The time and resources incurred, including but not limited to the administrative expenses to file applications for the projects.
- d. If not already discussed in this response, please explain the level of hardship, including but not limited to cost concerns, for Hawaii Gas in relation to the projects listed in subpart c. above.

RESPONSE:

- a. **Inflationary impacts since the implementation of G.O. 9 in 1965 have led Hawaii Gas to submit G.O. 9 applications for relatively smaller capital expenditure projects resulting in delays in project commencement or completion. These projects do not significantly affect Hawaii Gas' rate base and are becoming smaller in scope**

relative to Hawaii Gas' overall plant-in-service. For example, the renewal of bare steel pipelines (e.g., Docket No. 2019-0084), which is part of Hawaii Gas' safety and regulatory programs monitored by the Pipeline and Hazardous Materials Safety Administration (PHMSA), can be delayed to comply with the G.O. 9 regulatory process requirements. The delay in routine maintenance work, which enhances the reliability of Hawaii Gas' pipelines, is attributable to inflationary impacts since 1965.

Another example of an upcoming G.O. 9 application that would not have otherwise been required but for the circumstance of inflationary cost increases is the anticipated DCS Control Processors Upgrade project to replace an existing piece of equipment at the SNG Plant that is critical to Hawaii Gas' operations. Specifically, this project will replace the existing DCS control system, which is approaching its end of life and needs to be routinely replaced for Hawaii Gas to continue to effectively monitor and control the operational systems within the SNG Plant.

As stated in Section V of the Application, if the current threshold is not adjusted to account for inflation,

Hawaii Gas will be required to continue to seek Commission approval for relatively small capital expenditure projects. The original intent of G.O. 9, paragraph 2.3.f.2, as reflected in the 1965 document, was to review capital expenditures above \$500,000 or 10% of the total plant-in-service, whichever is less. The current \$500,000 threshold now represents approximately \$5,000,000 in July 2024, based on inflation, and represents only about 0.17% of Hawaii Gas' current total plant-in-service.

- b. Obtaining regulatory approvals for projects that meet the current G.O. 9 threshold presents several hardships, especially for smaller capital expenditure projects that do not significantly impact Hawaii Gas' plant-in-service or align with the original intent of paragraph 2.3.f.2. of G.O.9.
 - Time-Intensive Regulatory Process — For capital expenditure projects exceeding the current \$500,000 threshold, Hawaii Gas estimates approximately 12 to 18 months of additional efforts focused on preparing each capital expenditure application, and subsequently seeking and obtaining a Commission decision and order on that application. This timeframe

also does not account for the time it takes for initial engineering design, permitting, planning, and bidding/contracting. This process requires involvement from various staff and departments, as well as external consultants and legal counsel, depending on the nature, complexity, and subject of the project. These efforts are in addition to Hawaii Gas' employees managing their essential day-to-day responsibilities.

- Administrative and Resource Burdens — The G.O. 9 regulatory process is resource-intensive for Hawaii Gas. Currently, Hawaii Gas' regulatory department consists of just one employee, and every G.O. 9 application requires the support and effort of various internal staff members across various departments including, *inter alia*, project managers, internal legal counsel, engineers, finance, and accounting staff members. The work of these internal staff members is required to develop the application and provide detailed documentation and ongoing engagement throughout the docket and in the discovery process. These efforts divert internal resources from other

critical operational and customer-focused activities, and from other large strategic and financial Commission dockets, reducing overall organizational efficiency and effectiveness in focusing on the core operations of the business.

- Inflationary Cost Increases or Risks During the Regulatory Process – Hawaii Gas is frequently exposed to short-term inflationary cost increases or risks throughout the extended regulatory process. This period, between the preparation of cost estimates as part of the G.O. 9 application and the Commission’s approval to commence the project, can subject Hawaii Gas to increases in prices for associated goods and services. For instance, fluctuations in labor rates and material prices can result in cost escalations that are not factored into Hawaii Gas’ initial cost estimates. These financial pressures not only affect Hawaii Gas but also ultimately impact its ratepayers.
- Operational and Market Efficiency Losses – The lengthy regulatory process can also hinder seizing timely opportunities, like limited contractor availability, favorable material prices, or aligning

project schedules with planned maintenance or development. For example, a new customer or developer may request that Hawaii Gas commit to providing utility gas service under a compressed timeframe given their own project timeline and the need for gas infrastructure to be installed at the same time as other subsurface utility installations such as water, sewer, telecommunications, and on occasion, electricity. Prospective utility gas customers are often unaware of the regulatory timeframe of the G.O. 9 process, and, as such, do not involve Hawaii Gas until later in their planning and development process. This delayed entry into the planning and development process leads to a short timeframe for Hawaii Gas to (i) plan and budget a project, (ii) file and receive the necessary regulatory approvals under G.O. 9, and (iii) commence and complete the gas infrastructure installation. This will sometimes lead to a delay in the commencement and completion of capital expenditure projects, or can even lead to increased costs to re-excavate newly paved roads for subsurface installation.

- **Cost of External Resources** – As mentioned above, depending on the nature, complexity, and subject of the project, and contingent upon the availability or knowledge of internal resources, Hawaii Gas also engages external consultants and outside regulatory counsel to assist with a G.O. 9 docket proceeding. As discussed in more detail in the response to CA-IR-3, part b below, since 2020, for applications triggering G.O. 9, paragraph 2.3.f.2., the average cost for services performed by outside regulatory counsel has been approximately \$55,500 per application, and the average cost of services performed by external consultants for a G.O. 9 project greenhouse gas (“GHG”) assessments related to HRS § 269-6(b), is over \$36,000 per assessment. These resulting financial pressures affect not only Hawaii Gas but also have a direct impact on its ratepayers.

- c. **Please see Attachment CA-IR-1c, which includes a list of the utility projects that Hawaii Gas has completed from 2015 through 2024¹. The following is a list of Hawaii Gas’**

¹ Hawaii Gas notes that completed project costs listed in this attachment may differ between the amounts reported in project closing reports and those recorded on Hawaii Gas’ asset ledgers for a couple of reasons. The most common reason is that oftentimes when a project is physically completed and the

G.O. 9 dockets from 2015 through 2024, including information regarding whether the project was approved by the Commission, the docket number, and the decision number:

<u>PUC Docket No.</u>	<u>G.O. 9 Project</u>	<u>Approved</u>	<u>Decision</u>
2015-0341	SNG Land Purchase	Yes	Decision and Order No. 33421
2016-0340	Honouliuli WWTP Biogas	Yes	Decision and Order No. 34811
2018-0377	Relocate Pipelines for Leeward Bikeway Project (Waikele Bridge)	Yes	Decision and Order No. 37183
2018-0420	Wai Kai Development	Application dismissed without prejudice	Order No. 38702
2019-0084	Renewal of Bare Steel Pipeline (Young Street Pipeline Replacement)	Yes	Decision and Order No. 36682
2019-0156	Installation of Waikiki Regulator Station	Yes	Decision and Order No. 36791
2021-0072	CIS Project	Yes	Decision and Order No. 38389 and Order No. 38421
2022-0115	HART Pipeline Relocation	Yes	Decision and Order No. 38801
2022-0150	Kapolei Business Park	Application dismissed	Order No. 41132
2022-0165	SNG BMS	Ongoing	

asset begins being used, invoices from vendors have not been finalized and Hawaii Gas makes an estimate (accrual) of what the vendor's cost will be, in order to properly present its financial statements. Sometimes these final invoice reconciliations, and occasionally negotiations can drag on for long periods of time. If the due date for a closing report occurs during this period, the best cost information available at the time is used in that report. However, the final cost that ends up being recorded in Hawaii Gas' plant in service ledger may differ if the final invoice reconciliation occurs after the closing report is filed and the final invoice amount change from the accrual amount. Another reason is that Hawaii Gas does not split shared utility and nonutility single asset items between its utility and nonutility plant in service ledgers (e.g., the CRM Replacement project listed in Attachment CA-IR-1c contains utility and non-utility, but the utility portion is \$432,792). The rationale is that there is no such physical thing as a portion of an asset, for example a holder tank that is used in both utility and nonutility operations. Having a record of half a holder tank in each ledger risks administrative and accounting errors. So, while a closing report may be filed for only the utility portion of a project, Hawaii Gas' fixed asset ledger will contain the full cost of the shared asset as a single line item on either its utility or nonutility ledger. Making the utility and nonutility cost sharing related to these assets whole is accomplished through other mechanisms, such as cost allocations based on gas thruput in holders or rate base adjustments for large assets in rate cases.

2024-0209	Honouliuli Pipeline Extension	Ongoing	
2024-0319	Kahala Pipeline Replacement	Ongoing	

The time and resources incurred for filing and prosecuting these G.O. 9 dockets, including administrative expenses, is not readily quantifiable. Hawaii Gas does not budget or track all internal staff time and resources spent on specific projects for regulatory processes as various departments are involved and measuring the time and resources expended to each specific project would be onerous. Please see the response to CA-IR-3, part b below for a discussion regarding the average external costs expended on G.O. 9 dockets.

- d. Please see the response to CA-IR-1, part b above. The level of hardship resulting from these challenges is difficult to assess since it is accumulative of various factors and varies from project to project.

SPONSOR: Joanne Barradas; Shawn Tasaka

Description	Year Completed	Total
U Main Rnwl >10', <\$15K	2015	575,391
PV Solar @ Kamakee	2015	443,876
LNG Vaporizer Trailer	2015	399,857
Malakole Industrial Complex-Mains	2015	397,545
Beretania St Btwn Isenberg & University Ave	2015	397,119
U Main Rnwl >10', <\$15K	2015	364,095
St Louis & 4th Ave_Emergency Grade 1 leak	2015	303,816
Kamehameha Ave Utility Main Rnwl_4300 ft w/4"&3"	2015	289,895
U Svc Rnwl >10', <\$10K	2015	278,362
U Main Rnwl >10', <\$15K	2015	272,048
U Main Rnwl >10', <\$15K	2015	231,944
Kapiolani Blvd & Harding Under H1 Freeway	2015	226,098
LNG Tank Container UNT75 Unit #2	2015	203,385
LNG Tank Container UNT75 Unit #1	2015	194,763
New Bus Blkt C/I <\$5,000-Service	2015	193,566
New Bus Blkt Res<\$5,000-Service	2015	170,556
Ala Moana Ctr - Ewa Expansion - Svc	2015	163,427
Kapolei Sr Vlg/Leihano-Mains	2015	152,810
Ala Moana Ctr - Ewa Expansion - Mains	2015	139,121
New Bus Blkt C/I <\$5,000-Service	2015	130,530
Sand Island Supply System	2015	129,515
New Bus Blkt C/I <\$5,000-Service	2015	120,425
Cathodic Protection-Mains	2015	117,186
Concrete Bridge_SNG	2015	113,692
N King St Infront of Aala Park Main Rnwl 4" Bare Steel	2015	108,308
New Bus Blkt Res<\$5,000-Service	2015	105,518
2015 Int'l Terrastar Svc Truck; Veh# 4272	2015	101,912
U Svc Rnwl >10', <\$10K	2015	95,703
New Bus Blkt C/I <\$5,000-Service	2015	95,538
Main Rnwl @ Nuuanu Ave & Kuakini	2015	95,026
Lahaina Utility Holder Site - Paving	2015	92,755
SNG DCS (Distributed control system) Centum VP Upgrade	2015	92,642
New Bus Blkt Res<\$5,000-Service	2015	90,633
Cathodic Protection-Mains	2015	87,407
Main Rnwl @ Kapahulu/Ala Wai	2015	85,471
Ewa Golf Estates - Svc	2015	83,119
3 Key Valve Repl - Alii Drive	2015	82,621
U Svc Rnwl >10', <\$10K	2015	77,452
5 - Feed Bullet Transmitters - SNG	2015	68,220
New Bus Blkt C/I <\$5,000-Mtr Inst	2015	67,680
Naptha Super Heater	2015	66,067
Heat Exchanger_SNG	2015	63,290
Meter Pchse-(300) American AC-250 w/ERTs	2015	62,100
Halawa View Apartment - Svc	2015	61,684
Hilo Base Regulator Station Relocation	2015	61,057
Emergency Project - Hind Iuka & East Hind Dr	2015	59,218
U Svc Rnwl >10', <\$10K	2015	59,000
Vibration Analyzer - SNG	2015	58,326
Service Lateral for Kuakini Center - Svc	2015	58,191
8" Main Reloc-Walgreen Kapiolani	2015	56,273
Maluaka Bay Club&Spa-Tnk Hldr	2015	56,134
Main Rnwl - Alii Drive	2015	55,898
Golf Villas @ Lokahi Greens - Svc	2015	55,159

Description	Year Completed	Total
Holder Relief Valve	2015	54,321
Meter Ordered for Exchge - Meter Installation	2015	53,182
Kapolei Elementary&Comm Lot 70	2015	52,683
Transmission Repair @ Bougainville & Radford Drive	2015	47,727
New Bus Blkt C/I <\$5,000-Mtr Inst	2015	46,106
Main Rnwl @ 930 Dillingham - HCC	2015	44,392
New Bus Blkt Res<\$5,000-Service	2015	44,364
Waimanu/Kamakee Automatic Gate	2015	38,828
Meter Pchse-(26) American AL-1000 w/ERTs	2015	35,126
Electrical Wiring Upgrade_Garage & Meter Shop	2015	33,695
2015 Toyota Sienna Van_Mailroom	2015	32,748
New Bus Blkt Res<\$1,000-Mtr Inst	2015	31,574
40 - AC 630 W.ERTS	2015	30,720
X-Ray Flourescene Alloy Analyzer_SNG	2015	30,586
2015 Toyota Corolla LE	2015	30,465
U Blanket Service Renewal	2015	30,139
Cathodic Protection-Svc	2015	30,056
24 - HP Dual Port Hard drive 1.2 TB	2015	29,971
Main Rnwl 4" - West Hind Drive & Kiholo St.	2015	28,043
New Bus Blkt C/I <\$5,000-Mtr Inst	2015	27,000
2 - Cisco Catalyst 3850 w/cable and network	2015	26,620
2 - Cisco Firewall edition ASA 5525-X	2015	25,929
Pearl City Telemetry Electric Work	2015	25,796
2015 Toyota Camry_C4304; Veh# 4268	2015	25,164
Kohanaiki Pod 6- Service	2015	24,959
Meter Pchse-(120) American AC-250 w/ERTs	2015	24,840
Meter Pchse-(120) American AC-250 w/ERTs	2015	24,840
Meter Pchse-(120) American AC-250 w/ERTs	2015	24,840
Meter Pchse - 120 AC-250 W/ERTS	2015	24,840
2015 Toyota Prius Executive veh#4270; SNY685	2015	24,770
2015 Toyota Prius; Veh#4269 Lic#SPP488	2015	24,324
59 - American AL 425w/ERTs	2015	23,305
17 - American AL 1000 w/ERTs	2015	22,967
Kohanaiki Pod 6- Mains	2015	22,034
Meter Pchse-(180) American AC-250 w/ERTs	2015	21,240
2015 Toyota Corolla C3022; Veh# 4278	2015	20,519
Rebundant Router - Cisco	2015	20,059
New Bus Blkt C/I <\$5,000-Mtr Inst	2015	19,563
Kailua Road Relocation - 4" Mains	2015	19,096
Meter Pchse-(14) American AL-1000 w/ERTs	2015	18,914
Meter Pchse-(78) American AC-250 w/ERTs	2015	16,146
ERT Installation- Meter	2015	16,036
New Bus Blkt Res<\$1,000-Mtr Inst	2015	15,716
Main Rnwl - Alii Drive	2015	15,558
Repl Engine Cylinder Heads on T&D Truck #4084	2015	14,930
A/C Air Duct Work Conference Room_SNG	2015	14,621
Cathodic Protection-Svc	2015	14,529
Automatic Door - Kamakee Cashier	2015	14,456
36 - AL-425 W/ERTS	2015	14,328
U Blanket Service Renewal	2015	14,237
Meter Pchse-(36) American AL-425 w/ERTs	2015	14,220
Meter Pchse-(36) American AL-425 w/ERTs	2015	14,220
Meter Pchse-(130) American AC-250 w/ERTs	2015	13,520

Description	Year Completed	Total
163 Meter- AC250	2015	13,396
Meter Pchse - 17 AC-630 W/ERTS	2015	13,056
Meter Pchse-(60) American AC-250 w/ERTs	2015	12,420
Reg Meter-(60) American AC 250 W/ERTS	2015	12,420
Meter Pchse-(60) American AC-250 w/ERTs	2015	12,420
2 - Meter Reading Handheld	2015	12,252
Reg Meter-(9) American AL-1000	2015	12,159
Meter Pchse-(9) American AL-1000 w/ERTs	2015	12,159
Meter Pchse-(60) American AC-250 w/ERTs	2015	11,700
5 - APC Smart-UPS 1500VA LCD RM w/Adapter	2015	10,622
Reg Pchse-(220) American SR100	2015	10,340
Multiple Property Blanket - Svc	2015	10,221
U Blanket Main Renewal	2015	9,785
3 - Arc Flash PPE for SNG	2015	9,780
Meter Pcshe - 12 American AC 630 W/ERTS	2015	8,940
50 - American AC250 w/ERTs	2015	8,694
22- American AL-425 w/ERTs	2015	8,690
SNAP MMX Level 2 Upgrade Kit	2015	8,558
Meter Ordered - Installation	2015	8,525
2 - Natural Gas Detector	2015	8,349
11- American AC 630 W/ERTS	2015	8,305
4 - Fire Extinguisher and System @ Pier 38	2015	8,112
HP ProLiant BL460c Gen8 Blade Server	2015	7,920
Maui Utility ERT Meters	2015	7,859
Ewa Golf Estates - Mtr Installation	2015	7,715
Reg Pchse - 56 Invensys 143	2015	7,616
U Blanket Main Renewal	2015	7,587
New Bus Blanket Mtr Inst-C/I<\$5,000	2015	7,549
Reg Pchse - 54 Invensys 143	2015	7,344
HP ProLiant BL460c Gen8 Blade Server	2015	6,778
Waimanu St. DH Gate Operator	2015	6,207
20 ft Instrument Eqp Storage Container - SNG	2015	6,091
New Bus Blkt Res<\$1,000-Mtr Inst	2015	6,007
2 - HP ProCurve 4-Port 10Gb switch w/network cable	2015	5,990
15- American AL-425 w/ERTs	2015	5,925
Reg Pchse-(128) American SR100	2015	5,888
Reg Pchse-(124) American SR100	2015	5,828
Meter Pchse-(14) American AL-425 w/ERTs	2015	5,530
Reg Pchse-(13) Itron B34R	2015	5,408
4- American AL-1000 w/ERTs	2015	5,404
Expansion Tank_Central A/C System @ Kamakee	2015	5,349
New Bus Blanket Service-C/I<\$5,000	2015	5,235
(5) Meter Gage Model EHC 03	2015	5,216
50 - American AC250 w/ERTs	2015	5,200
New Bus Blkt U Res<\$5k-Svc	2015	5,072
Torque Multiplier - SNG	2015	4,859
Reg Pchse-(104) American SR100	2015	4,784
12- American AL-425 w/ERTs	2015	4,740
7 - Cisco Redundant WAN	2015	4,613
Wasp Barcode Software	2015	4,435
Replace Juniper Firewall	2015	4,359
2 Ritmo Scrappers Model RTC 315	2015	4,344
Reg Pchse-(92) American SR100	2015	4,324

Description	Year Completed	Total
GARAGE EQUIPMENT- OTC A/C SERVICE CART	2015	4,292
Gas Ranger for leak survey	2015	4,246
TRANSMISSION POWER FLUSH-GARAGE	2015	4,180
Reg Pchse-(10) Itron B34R	2015	4,160
Reg Pchse - 84 SR100	2015	4,032
Reg Meter-(6) American AC 630	2015	3,996
Reg Pchse-(84) American SR100	2015	3,948
40-ERTS Residential	2015	3,938
Reg Pchse - 82 SR100	2015	3,936
17 Meter - AL425	2015	3,926
2 - Wasp Barcode Printer	2015	3,914
New Bus Blkt Res<\$1,000-Mtr Inst	2015	3,899
Reg Pchse - 28 Invensys 143	2015	3,808
5 - American AC 630 w/ERTs	2015	3,775
Reg Pchse-(80) American SR100	2015	3,760
12- American AL 425 W/ERTS	2015	3,672
Meter Pcshe - 12 American AL425 W/ERTS	2015	3,588
Meter Pchse-(9) American AL-425 w/ERTs	2015	3,555
Reg Pchse-(72) American SR100	2015	3,384
Split AC (Mitsubishi PKA-A-24FA) in Purchasing	2015	3,366
Reg Pchse-(24) Invensys 143	2015	3,168
Reg Pchse-(24) Invensys 143	2015	3,168
Win 7 Tablet 10.4" _Meter Shop	2015	3,167
GENIE SUPERLIFT EQUIPMENT	2015	3,033
NORCO PRESS, STAND, AND FORKLIFT JACK	2015	3,007
Gas Driven air compressor for Kapolei Trk	2015	2,867
4 - Tents for T&D	2015	2,852
3 Meter- AL1000	2015	2,809
New Bus Blkt U Res<\$5k-Mtr Ins	2015	2,794
Meter Pchse-(7) American AL-425 w/ERTs	2015	2,765
2 - American AL 1000 w/ERTs	2015	2,702
Reg Pcshe 56 - SR100	2015	2,688
General power tools	2015	2,608
Garage Shared tools & eqp	2015	2,602
Surface Pro Intel Core i7_Jacob Mason	2015	2,444
Surface Pro Intel Core i7_Nate Nelson	2015	2,444
Reg Pchse-(18) Invensys 143	2015	2,376
6 - American AL 425w/ERTs	2015	2,370
NQ638801 USB Link Kit	2015	2,342
3 - AC 630 W.ERTS	2015	2,304
10 - Dell 21.5 Monitor 21.5"	2015	2,235
Surface Pro 3 tablet w/kFNboard_046529243453	2015	2,235
Surface Pro 3 tablet w/kFNboard_048669243453	2015	2,235
Reg Pchse-(16) Invensys 143	2015	2,112
Reg Pchse-(5) Itron B34R	2015	2,080
Reg Pchse-(6) Itron B34R	2015	2,028
APC SmartUPS for Kamakee Server Room	2015	2,023
20-ERTS Residential	2015	1,969
Reg Pchse-(40) American 1813C	2015	1,960
Reg Pchse-(40) American 1813C	2015	1,960
Reg Pchse - 40 SR100	2015	1,920
Surface Pro 3 tablet for HR VP	2015	1,884
Garage Eqp-Ford IDS II, Diagnostic Program for Laptop	2015	1,878

Description	Year Completed	Total
Reg Pchse - 4 B34R	2015	1,704
Reg Pchse 4 - B34R	2015	1,664
Reg Pcshe - 4 B34R	2015	1,664
Reg Pchse-(4) Itron B34R	2015	1,664
Latitude E6540_Ryland Kam_GFFFF12	2015	1,654
Reg Pchse - 12 Invensys 143	2015	1,632
Reg Pchse - 12 Invensys 143	2015	1,632
Reg Pchse - 12 Invensys 143	2015	1,632
Reg Pchse-(12) Invensys 143	2015	1,584
17 Residential ERTS	2015	1,554
3 sets bead removers	2015	1,543
Surface Pro 2 tablet w/kFNboard_028968240453	2015	1,528
Surface Pro 2 tablet w/kFNboard_024812440453	2015	1,528
Surface Pro 2 tablet w/kFNboard_003747740353	2015	1,528
Surface Pro 2 tablet w/kFNboard_029018140453	2015	1,528
Surface Pro 2 tablet w/kFNboard_029095340453	2015	1,528
Surface Pro 2 tablet w/kFNboard_024915740453	2015	1,528
Surface Pro 2 tablet w/kFNboard_029123440453	2015	1,528
Surface Pro 2 tablet w/kFNboard_029257340453	2015	1,528
Surface Pro 2 tablet w/kFNboard_028967340453	2015	1,528
Surface Pro 2 tablet w/kFNboard_029338340453	2015	1,528
Surface Pro 2 tablet w/kFNboard_029080240453	2015	1,528
Samsung TV LED 1080 Smart HDTV_EHS	2015	1,522
GARAGE OIL TRANSFER TANKER W/ELEC.PUMP	2015	1,521
Reg Pcshe - 32 American SR100	2015	1,472
2 - Composite HD Impact Guns	2015	1,464
Allison Trans Doc Diagnostic/Program Software	2015	1,451
2 - Tents for Kuhela	2015	1,426
Transmitter for pipe toning	2015	1,347
Kohanaiki Shores-Holders	2015	1,345
Reg Pchse - 28 SR100	2015	1,344
OTC Scanner Software upgrade kit & 9 Pin connector kit	2015	1,305
Reg Pchse-(3) Itron B34R	2015	1,248
Reg Pcshe 3- B34R	2015	1,248
29 - SR100	2015	1,189
Reg Pchse-(24) American 1813C	2015	1,176
Generator for pipe coating and grinders	2015	1,126
Reg Pchse-(24) American SR100	2015	1,104
12 ERTS Residential	2015	1,097
Dell Optiplex 9020_43LZV12	2015	1,061
Dell Optiplex 9020_43M0W12	2015	1,061
Dell Optiplex 9020_43N0W12	2015	1,061
Dell Optiplex 9020_43MZV12	2015	1,061
Dell Optiplex 9020_43M1W12	2015	1,061
USB Link	2015	1,053
Garage Battery Charger and HI Cap booster pack	2015	1,005
COMPUTER WORKSTATION - IG CAMPBELL	2015	963
Nav-Link Interface, Ford IDS Software on F650/750 Truck	2015	896
Reg Pchse-(1) Itron B34R	2015	832
Reg Pchse - 16 1813C	2015	800
Reg Pcshe 16- American 1813C	2015	784
Replace A/C for T&D Breakroom	2015	782
Forklift work Platform	2015	782

Description	Year Completed	Total
Reg Pchse-(16) American 1813C	2015	768
Reg Pchse 16 - American 1813C	2015	768
Reg Pchse 16 - SR100	2015	736
5-ERTS Commercial	2015	664
Eaton Svc Ranger Diagnostic Software	2015	643
2 Flip Top Tool Cart for Kamakee Mechanics	2015	642
Mud Gun	2015	627
Static Cling Window Sticker Printing system	2015	610
Reg Pchse-(12) American 1813C	2015	588
Reg Pchse-(12) American 1813C	2015	588
13 - American 1813C	2015	585
KAMAKEE GARAGE- LUBRICATION WINDOW STICKER PRINTER W/LABELS	2015	584
Reg Pcshe 12- American SR100	2015	564
12- American 1813C	2015	540
Ball Joint Press Service Set	2015	533
Fluke 88 Multi-Meter Set	2015	521
U Svc Rnwl >10', <\$10K	2015	514
Surface Pro	2015	506
Surface Pro	2015	506
Surface Pro	2015	506
Reg Pchse-(1) Sensus 243RPC	2015	480
Reg Pchse 1 - B34R	2015	416
Reg Pchse-(1) Itron B34R	2015	416
Reg Pcshe 1 - B34R	2015	416
Reg Pchse-(1) Itron B34R	2015	402
Reg Pcshe - 3 Invensys 143	2015	396
Reg Pchse-(8) American 1813C	2015	392
Reg Pcshe 8- American 1813C	2015	392
1 - Sprague B34R	2015	338
Reg Pchse - 2 Invensys 143	2015	272
Reg Pchse 16 - Invensys 143	2015	264
Reg Pchse-(4) American 1813C	2015	180
Reg Pchse 4-1813C	2015	180
Reg Pchse 4-1813C	2015	180
Reg Pchse 4-1813C	2015	180
Reg Pchse 4-1813C	2015	180
HART - Transmission Segment	2016	5,315,884
SNG Land Purchase	2016	3,172,000
HART - Distribution Segment	2016	2,520,199
Kapiolani&Ward-8" Supply Line	2016	455,976
GIS Leak Application	2016	394,669
Kapolei Elementary&Comm Lot 70	2016	360,230
Iwilei Rd Renew 8" Supply Line	2016	337,393
U Main Rnwl >10', <\$15K	2016	321,551
U Main Rnwl >10', <\$15K	2016	321,509
U Main Rnwl >10', <\$15K	2016	261,722
Kapahulu Ave-Mooheau & William	2016	259,154
School St & Likelike Hwy	2016	234,943
U Main Rnwl >10', <\$15K	2016	229,279
Network Upgrade	2016	189,782
U Main Rnwl >10', <\$15K	2016	183,064
New Bus Blkt C/I<\$5k Svc	2016	140,154

Description	Year Completed	Total
New Bus Blkt C/I<\$5k Svc	2016	131,658
U Svc Rnwl Blkt	2016	126,612
Cathodic Protection-Mains	2016	122,390
Main Rnwl @ Waiialae Ave Btwn 13th & 15th Ave	2016	114,264
New Bus Blkt Res<\$5,000-Service	2016	110,548
8 GPS Units	2016	108,066
New Bus Blkt C/I<\$5k Svc	2016	106,873
Manono Street Relocation of Mains	2016	105,944
New Bus Blkt Res<\$5k Svc	2016	104,261
2016 Int'l Terrastar Dump Truck_Veh#4304	2016	101,476
2017 Int'l Terrastar Dump Truck_Veh#4305	2016	101,476
New Bus Blkt Res<\$5k Svc	2016	93,760
1316 Multiservice Air Cooler	2016	90,648
Waiialae Ave & Koali Rd	2016	87,710
New Bus Blkt C/I <\$5,000-Service	2016	86,587
HART - Farrington Highway Relocation	2016	84,953
Multiple Property Blkt-Svc	2016	83,118
2016 Cathodic Protection-Mains	2016	81,149
Regulator Station Vault Repair-Waiakamilo/N King St	2016	76,588
New Bus Blkt Res<\$5k Svc	2016	74,059
U Svc Rnwl Blkt	2016	73,255
New Bus Blkt C/I <\$5,000-Service	2016	71,833
Ala Moana Ctr - Ewa Expansion - Mtr	2016	68,629
3 - Dell XC630: Private Cloud Implementation	2016	66,793
U Svc Rnwl Blkt	2016	66,497
Repl 1304-3 Naptha Superheater - SNG	2016	64,333
2016 Cathodic Protection-Mains	2016	62,357
U Svc Rnwl >10', <\$10K	2016	57,824
U Svc Rnwl >10', <\$10K	2016	55,376
Meter Pchse - 240 AC-250 W/ERTS	2016	49,680
38 - Optiplex 9020	2016	49,053
New Bus Blkt C/I<\$5k-Mtr Inst	2016	47,418
12 - 19" X 40' Cabinet - Private Cloud Implementation	2016	46,148
25 - Dell Latitude E7250	2016	45,920
New Bus Blkt C/I <\$5,000-Mtr Inst	2016	45,313
New Bus Blkt C/I<\$5k-Mtr Inst	2016	42,472
Repl 1306-06 Super heater - SNG	2016	40,412
New Insulation Upgrade- SNG	2016	39,087
Vsphere Enterprise Plus; SN#4LB1X52	2016	38,833
Meter Pchse-180 American AC-250	2016	37,260
Meter Pchse-180 American AC-250	2016	37,260
New Bus Blkt Svc<\$5k	2016	33,966
PowerEdge R730 Backup Server	2016	33,545
Meter Pchse - 160 AC-250 W/ERTS	2016	33,120
Repl 1306-5 Naptha Superheater - SNG	2016	33,083
Makiki St Leak Repair	2016	32,384
Kamakee Roofing Repair	2016	31,101
Meter Pchse - 22 AL-1000 W/ERTS	2016	30,426
2015 Chev Van_Cust Care_Veh\$#4290_Vin#3N63M0ZN7FK722502	2016	28,880
2015 Chev City Express Van; Veh#4291	2016	28,880
Meter Pchse-36 American AC-630 w/ERT	2016	27,648
Meter Pchse-18 American AL-1000	2016	24,894
Meter Pchse - 120 AC-250 W/ERTS	2016	24,840

Description	Year Completed	Total
Meter Pchse - 120 AC-250 W/ERTS	2016	24,840
Meter Pchse-120 American AC-250	2016	24,840
Meter Pchse-120 American AC-250	2016	24,840
ERT Installation- Meter	2016	24,044
Med & Heavy Naptha Pump Wiring	2016	23,413
2016 Toyota Corolla; Veh#4288; Lic#SVD894	2016	21,334
2016 Toyota Corolla; Veh#4285; Lic#SVD893	2016	21,334
Army Utility Convert-Mtr Inst	2016	21,107
13 - LATITUDE E7240; [1MBKM32, 35JKM32, 728LM32, 7HJKM32, 805KM32, 9LBKM32, H9JK	2016	20,514
32 - Sit stand desk	2016	20,460
Cathodic Protection-Svc	2016	19,973
Emergency Project - Main Relocation Kailua Road	2016	19,511
New Bus Blkt Res<\$1k Mtr Inst	2016	18,764
Kamakee Electrical Repair	2016	18,596
Repl A/C for HR	2016	17,707
Repl A/C for EHS	2016	17,707
Repl A/C for Mailroom	2016	17,707
2011 Ford F450; Veh#4162L	2016	17,201
2011 Ford F450; Veh#4169L	2016	17,155
2011 Ford F450; Veh#4170L	2016	17,155
SNG Fuel Let down piping	2016	16,838
2- CISCO ISR 4431 Router	2016	16,584
Kohanaiki Pod 6 (Hale Alani) - Tank Install	2016	16,421
New Bus Blkt Res<\$5,000-Service	2016	15,673
New Bus Blkt C/I <\$5,000-Mtr Inst	2016	15,669
New Bus Blkt Res<\$1,000-Mtr Inst	2016	15,637
Cookies in Paradise - Svc	2016	15,232
Warehouse#2 Rollup Door Repl	2016	14,624
2 - Dell Networking N4032F; SN#9CRRX42, 8DRRX42	2016	14,392
36 - AL-425 W/ERTS	2016	14,328
36 - AL-425 W/ERTS	2016	14,328
Meter Pchse-36 American AL-425	2016	14,328
Fastpath - GP Audit Tool	2016	14,219
66 - 22" MONITOR P2213	2016	13,924
Pipe Bollards for Pump Farm	2016	13,530
City Laundromat-Svc	2016	13,530
Repl Relief Valve Tank#1-6	2016	12,897
2812 Methanator Auxiliary Heater	2016	12,516
Meter Pchse - 9 AL-1000 W/ERTS	2016	12,447
Meter Pchse 9-AL-1000 W/ERTS	2016	12,447
Meter Pchse - 9 AL-1000 W/ERTS	2016	12,447
Meter Pchse-9 American AL-1000	2016	12,447
Meter Pchse - 60 AC-250 W/ERTS	2016	12,420
Meter Pchse - 60 AC-250 W/ERTS	2016	12,420
Reg Pchse - 254 SR100	2016	12,192
30 - AL-425 W/ERTS	2016	11,940
Meter Pchse - 8 AL-1000 W/ERTS	2016	11,064
36 - AL-425 W/ERTS	2016	11,016
New Bus Blkt Res<\$1k Mtr Inst	2016	10,826
Pier 38 LED Light Fixtures	2016	10,288
Refrigerated Air Dryer 2865-01	2016	10,281
Kilauea Ave - 4" Main Rnwl	2016	10,239
New Bus Blkt Svc<\$5k	2016	9,765

Description	Year Completed	Total
24 - AL-425 W/ERTS	2016	9,552
Replace 2 Shop Truck Jacks {Scorpion Service Jack}	2016	9,339
Reg Pchse - 192 SR100	2016	9,216
New Bus Blkt Mains<\$5k	2016	8,631
2 - Gas Range Rover Detectors	2016	8,627
Pressure Build Unit @ Pier 38	2016	8,170
5 - LATITUDE E7240; [4PKZK12, 4QKZK12, 8PHZK12, 6JLZK12, 5KKZK12]	2016	8,129
5 - LATITUDE E7240; [4LT1L12, 4MV1L12, G1W1L12, F0W1L12, 8QT1L12]	2016	8,129
Kamakee Elevator Motor	2016	8,050
Kapolei Sr Vlg/Leihano-Svc	2016	8,010
U Blanket Service Renewal	2016	7,977
Reg Pchse - 164 SR100	2016	7,872
2016 Cathodic Protection-Service	2016	7,071
5 - AL 1000 W.ERTS	2016	6,915
Meter Pchse - 5 AL-1000 W/ERTS	2016	6,915
30 - AC-630 W/ERTS	2016	6,912
Regency Holder Tank Fencing	2016	6,731
4 -Surface Pro 3	2016	6,495
8 - AC-630 W/ERTS	2016	6,144
8 - AC-630 W/ERTS	2016	6,144
3 - Dell Latitude E7250	2016	6,091
Kukuiula Parcel CC Lot 32 - Mains	2016	6,054
Miller Welding Machine Bobcat 250	2016	5,790
4 - American AL 1000 w/ERTs	2016	5,532
2011 GMC Sierra Pickup; Veh#4166L	2016	5,508
2011 GMC Canyon Pickup; Veh#4163L	2016	5,406
Reg Pchse - 112 SR100	2016	5,376
Reg Pchse - 112 SR100	2016	5,376
26 - 22" MONITOR P2213	2016	5,219
Reg Pchse - 12 Sprague B34R	2016	5,112
LPG Desulfurization system	2016	4,902
Reg Pchse - 36 Invensys 143	2016	4,896
Reg Pchse - 36 Invensys 143	2016	4,896
New Bus Blkt Res<\$5,000-Service	2016	4,812
Reg Pchse - 11 B34R	2016	4,686
(10) Sit-Stand Desk; Pro Plus 30	2016	4,674
Laptop @ Pier 38_Monitoch Tell	2016	4,637
Repl City Gas Pipe and Valve - SNG	2016	4,622
Kukuiula Parcel FF-PH 1-Mains	2016	4,610
Reg Pchse - 92 SR100	2016	4,416
Reg Pchse - 92 SR100	2016	4,416
Reg Pchse - 10 B34R	2016	4,260
Reg Pchse - 10 Sprague B34R	2016	4,260
2 - LATITUDE E7250	2016	4,191
20 - AC 250 W.ERTS	2016	4,140
Reg Pchse - 30 Invensys 143	2016	4,080
Reg Pchse - 84 SR100	2016	4,032
Reg Pchse - 9 B34R	2016	3,834
(3) 4" 600# Naptha Feed Gate Valve	2016	3,806
Meter Pchse 12-AL-425 W/ERTS	2016	3,672
2 - LATITUDE E7250; [B36Y062, 646Y062]	2016	3,450
2 - Surface Pro 4	2016	3,359
Reg Pchse - 24 Invensys 143	2016	3,264

Description	Year Completed	Total
Reg Pchse - 24 Invensys 143	2016	3,264
Pacific Party Rental-Svc	2016	3,220
3 - HP LASERJET PRINTER; [VND3Q46412, VND3Q46407, VND3Q46414]	2016	3,087
Debeader OD 32, 40, 63	2016	3,056
Reg Pchse - 7 B34R	2016	2,982
2 - Surface Pro	2016	2,802
5 - 22" MONITOR W/STAND	2016	2,697
Reg Pchse - 6 B34R	2016	2,556
Reg Pchse - 6 B34R	2016	2,556
Reg Pchse - 6 Sprague B34R	2016	2,556
Reg Pchse - 18 Invensys 143	2016	2,448
Kukuiula Parcel FF- PH 1 Service	2016	2,317
Reg Pchse 48 - SR100	2016	2,304
Reg Pchse - 5 B34R	2016	2,130
Reg Pchse - 5 Sprague B34R	2016	2,130
Reg Pchse - 44 SR100	2016	2,112
New Bus Blkt U Res<\$5k-Svc	2016	1,986
U Blanket Service Renewal	2016	1,899
Hammer Drill Model TE-60-ATC	2016	1,885
U Blanket Main Renewal	2016	1,855
2 - Cordless Hammer Drill	2016	1,798
Kapolei Elementary II and Commercial lot 70 - Mains	2016	1,774
(2) Black Mesh Chairs - Garage Dept	2016	1,730
Reg Pchse - 4 B34R	2016	1,704
Reg Pcshe 4 - B34R	2016	1,704
GRAPHIC CARD & 51 SOUNDBAR AX510	2016	1,657
Reg Pchse - 12 Invensys 143	2016	1,632
Reg Pchse - 12 Invensys 143	2016	1,632
Reg Pchse - 32 1813C	2016	1,600
Respirators	2016	1,548
Multiple Property Blanket - Residential Mtr Install	2016	1,545
Reg Pchse - 32 SR100	2016	1,536
Reg Pchse - 28 American 1813C	2016	1,400
U Main Rnwl >10', <\$15K	2016	1,330
Reg Pchse - (1) American 1883PFM	2016	1,300
Reg Pchse - (1) American 1883PFM	2016	1,300
Reg Pchse - (1) American 1883PFM	2016	1,300
Reg Pchse - (1) American 1883PFM	2016	1,300
Reg Pchse 3 - B34R	2016	1,278
Reg Pchse - 3 B34R	2016	1,278
Reg Pchse - 24 1813C	2016	1,200
Reg Pchse - 24 1813C	2016	1,200
Reg Pchse 24 - 1813C	2016	1,200
Electric Short Locator	2016	1,168
Reg Pchse - 24 SR100	2016	1,152
Reg Pchse - 24 SR100	2016	1,152
New Bus Blkt C/I<\$5k-Mtr Install	2016	1,109
Reg Pchse - 20 1813C	2016	1,000
(2) Sit-Stand Desk; Pro Plus 36	2016	981
Reg Pchse - 2 B34R	2016	852
Reg Pchse - 2 B34R	2016	852
Reg Pchse - 2 Sprague B34R	2016	852
Reg Pcshe 2 - B34R	2016	852

Description	Year Completed	Total
Reg Pchse - (1) American 2083	2016	835
6 - Invensys 143	2016	816
Reg Pchse - 6 Invensys 143	2016	816
Reg Pchse - 16 1813C	2016	800
Reg Pchse - 16 1813C	2016	800
Reg Pchse 16 - 1813C	2016	800
Reg Pchse - 16 SR100	2016	768
Reg Pchse 16 - SR100	2016	768
Reg Pcshe 56 - SR100	2016	768
Reg Pchse - 16 SR100	2016	768
Ergo Leather high Back Chair - HR	2016	664
Reg Pchse - 12 1813C	2016	600
Reg Pcshe 12- American 1813C	2016	600
Reg Pchse - 12 1813C	2016	600
Reg Pcshe 12- American 1813C	2016	600
Sit-Stand Desk Pro Plus 30	2016	594
Sit-Stand Desk Pro Plus 30	2016	594
Ergo Mid Back Mesh Chair - Engineer	2016	593
4 - B34R	2016	426
Reg Pchse 1 - B34R	2016	426
Reg Pchse - 1 B34R	2016	426
Reg Pcshe 8- American 1813C	2016	400
Reg Pchse 4 - 1813C	2016	400
Reg Pchse - 8 SR100	2016	384
Reg Pchse - 8 SR100	2016	384
Reg Pchse - 1 B34R	2016	338
U Blanket Main Renewal	2016	327
Reg Pchse - 4 1813C	2016	200
Reg Pchse - 4 1813C	2016	200
Reg Pchse - American 1813C	2016	200
Reg Pchse - 4 1813C	2016	200
Reg Pchse - 4 American 1813C	2016	200
Reg Pcshe 4- American 1813C	2016	180
LNG - 30% SNG Conversion	2017	13,654,727
E Kapolei II Infrastr-Mains	2017	567,009
Iwilei Rd & Nimitz Hwy_200 ft 8" Main	2017	371,258
U Main Rnwl >10', <\$15K	2017	349,499
U Main Rnwl >10', <\$15K	2017	330,552
U Main Rnwl >10', <\$15K	2017	287,112
(2) 2017 Int'l Terrastar Compressor Truck; Veh# 4306 & #4307	2017	252,767
Ainamalu @ Waikoloa - Mains	2017	220,159
U Main Rnwl >10', <\$15K	2017	207,942
U Main Rnwl >10', <\$15K	2017	188,073
Bare Steel Repl Blkt	2017	182,590
HART Airport	2017	171,724
Waiatae Ave & 11th Ave	2017	161,194
New Bus Blkt C/I<\$5k-Mtr Inst	2017	147,167
Hunakai Street Main rnwl - 3" pipe	2017	143,407
New Bus Blkt C/I<\$5k Svc	2017	142,781
Pali Hwy & School St	2017	142,215
New Bus Blkt C/I <\$5,000-Service	2017	140,212
LNG - 30% SNG Conversion - Cap Interest	2017	136,747
2017 Int'l 4300; Dump Truck Veh# 4328	2017	133,935

Description	Year Completed	Total
New Bus Blkt C/I <\$5,000-Service	2017	120,318
Leak Service Repair - Lokahi Golf Villas	2017	118,881
E Kapolei II Infrastr-Svcs	2017	117,669
Bare Steel Repl Blkt	2017	113,591
(3) 2016 Ford F-250 Pickup; Veh#4325; #4326; #4327	2017	110,623
New Bus Blkt C/I <\$5,000-Service	2017	110,084
Blkt Bare Steel Replacement	2017	107,086
Mobile to Mobile Telemetry System	2017	105,003
U Main Rnwl >10', <\$15K	2017	104,434
U Svc Rnwl >10', <\$10K	2017	102,688
New Bus Blkt Res<\$5,000-Service	2017	102,049
U Svc Rnwl >10', <\$10K	2017	98,986
Bare Steel Repl Blkt	2017	98,735
2017 Cathodic Protection Main	2017	91,578
Waiakamilo Rd-Kalani&Colburn	2017	83,694
(3) 2016 Nissan NV200; Veh#4316; #4315; #4314	2017	80,545
SNG Axis Security Cameras	2017	76,915
(3) 2016 Nissan NV200; Veh#4317; #4318; #4320	2017	76,645
U Svc Rnwl Blkt	2017	74,868
2016 Oahu TMP Blanket	2017	72,663
Pacific Heights Rd & Pauoa Rd	2017	69,481
2017 Cathodic Protection Main	2017	66,098
U Blanket Service Renewal	2017	66,012
New Bus Blkt C/I <\$5,000-Mtr Inst	2017	65,383
New Bus Blkt Res<\$5,000-Service	2017	62,549
Meter Pchse-300 American AC-250	2017	62,100
Multiple Property Blkt-Svc	2017	61,136
New Bus Blkt Res<\$5k Svc	2017	59,738
Meter Pchse-285 American AC-250	2017	58,995
U Svc Rnwl Blkt	2017	58,607
New Bus Blkt Res<\$5,000-Service	2017	57,318
Ewa Golf Estates - Mains	2017	56,868
New Bus Blkt C/I <\$5,000-Mtr Inst	2017	56,579
Waiialae Ave & 5th Ave_300 ft 3" Main	2017	56,153
2016 Cathodic Protection-Mains	2017	55,574
(2) 2017 Toyota Tacoma 4x2; Veh #4323 & #4324	2017	54,387
Hualalai Parcel 14-Tank&Install	2017	53,972
Kapahulu Ave-Btwn Kuhio&Ala Wa	2017	52,813
Meter Pchse - 240 AC-250 W/ERTS	2017	51,840
(2) 2016 Nissan NV200; Veh#4322 & #4319	2017	51,097
2828 Kapiolani Bvd_300ft 3" Pipe	2017	49,701
Kamakee Camera Upgrade	2017	48,731
303E Mini Excavator; Replace #4048; #4331	2017	47,923
New Bus Blkt C/I<\$5k Svc	2017	44,451
Bare Steel Repl Blkt	2017	42,701
Pipe Support for Flange Collar	2017	39,405
Meter Pchse - 180 AC-250 W/ERTS	2017	38,880
Meter Pchse-27 American AL-1000	2017	37,341
Moanalua Rd & Ala Kapuna_8" Supply Line	2017	36,211
2016 Cathodic Protection-Mains	2017	35,956
U Svc Rnwl >10', <\$10K	2017	34,600
U Blanket Main Renewal	2017	33,745
U Svc Rnwl >10', <\$10K	2017	33,172

Description	Year Completed	Total
Hydrogen Compressor Rebuild	2017	32,757
New Bus Blkt Res<\$1k Mtr Inst	2017	32,474
New Bus Blkt Res<\$5k Svc	2017	30,244
Meter Pchse - 120 AC-250 W/ERTS	2017	25,920
Meter Pchse - 120 AC-250 W/ERTS	2017	25,920
Meter Pchse - 120 AC-250 W/ERTS	2017	25,920
Meter Pchse - 120 AC-250 W/ERTS	2017	25,920
Meter Pchse - 120 AC-250 W/ERTS	2017	25,920
Meter Pchse-18 American AL-1000	2017	25,668
Meter Pchse - 18 AL1000 W/ERTS	2017	25,668
Replace Meter Van #4188; Veh#4321	2017	25,548
14 - Dell Latitude E7270	2017	24,988
Meter Pchse-120 American AC-250	2017	24,840
New Bus Blkt Res<\$1,000-Mtr Inst	2017	24,394
Meter Pchse - 60 AL425	2017	24,360
Kapolei Elem Sch_Cap Interest	2017	23,620
250 ft 3" Main Rnwl - Kapiolani Blvd. & Pensacola St.	2017	23,531
(2) 20 ft storage container @ Kapolei Garage	2017	23,314
RPM Laser Sensors - SNG	2017	22,101
Meraki Network Upgrade - SNG	2017	21,666
Meraki Network Upgrade - TOPA	2017	21,666
New Bus Blkt C/I <\$5,000-Mtr Inst	2017	21,382
GIS Leak Application Cap Interest	2017	20,139
Vehicle Lease Buyout; Veh#4168L 2011 Ford F650 Truck	2017	19,154
2 - Carbonate Displacement Pump	2017	18,502
Meter Pchse - (23) AC630 W/ERTS	2017	18,216
2016 Cathodic Protection-Service	2017	16,189
New Bus Blkt Res<\$1,000-Mtr Inst	2017	16,148
Meter Pchse-21 American AC-630	2017	16,128
Leak Repair - Kuakini St	2017	14,398
Meter Pchse-36 American AL-425	2017	14,328
SNG CO2 Big Blower	2017	14,139
Alii Drive Leak Repair	2017	13,958
Meter Pchse-10 American AL-1000	2017	13,830
Vehicle Lease Buyout; Veh#4156L 2011 Ford F450 Truck	2017	13,696
Vehicle Lease Buyout; Veh#4167L 2011 Ford F450 Truck	2017	13,696
Kamakee main entrance roll-up door	2017	13,476
PowerEdge R730 Backup Server @ Atlantic Aviation LLC	2017	13,315
M&P Cremations-Service	2017	12,719
Pulsco Vent Silencer_SNG	2017	12,649
Reg Meter-(9) American AL-1000	2017	12,447
Meter Pchse-9 American AL-1000	2017	12,447
Meter Pchse-9 American AL-1000	2017	12,447
Meter Pchse-60 American AC-250	2017	12,420
Meter Pchse-60 American AC-250	2017	12,420
SNG 300 CFM Compressed Air Dryer	2017	12,390
GGP AMC, The Lanai - Service	2017	12,000
Reg Pchse - 28 Sprague B34R	2017	11,928
Meter Pchse - 8 AL-1000 W/ERTS	2017	11,408
8 - AL 1000 W.ERTS	2017	11,064
2 Muller 4" Tap/Stop Equipment	2017	10,261
Reg Pchse - 16 1813B	2017	9,936
New Bus Blkt C/I<\$5k Svc	2017	9,896

Description	Year Completed	Total
Rotary 12k lbs Vehicle Lift_Kapolei	2017	9,618
Reg Meter-(12) AC630	2017	9,504
New Bus Blkt C/I<\$5k-Mtr Inst	2017	9,429
02 Absorber KO Low Level Arm	2017	9,322
Meter Pchse 12-AC-630 W/ERTS	2017	9,216
Roofing maintenance - Sales Office	2017	9,209
Meter Pchse - (6) AL1000 W/ERTS	2017	8,556
Reg Pchse - 172 SR100	2017	8,256
Reg Pchse - 19 Sprague B34R	2017	8,094
Power Install to Office Container Kapolei	2017	8,080
Reg Pchse - 164 SR100	2017	7,872
Yamada Diaphragm Pump_SNG	2017	7,835
294 ft 1.5 inch_Vineyard Blvd & River St	2017	7,824
3 - Dell Mobile Precision Workstation 3510	2017	7,768
Vehicle Lease Buyout; Veh#4165L 2011 GMC Savanna	2017	7,544
2017 Cathodic Protection Service	2017	7,352
Reg Pchse - 152 SR100	2017	7,296
Meter Pchse-(86) American AC-250 w/ERTs	2017	7,198
01 Absorber KO Low Level Arm	2017	7,192
4 GPS AS10 Antenna	2017	7,035
Reg Pchse - 48 Invensys 143	2017	6,528
Meter Pchse - (16) AL425	2017	6,496
Replace 2 - 2LC Fusing Equipment	2017	6,368
Golf Villas @ Lokahi Greens - Meter	2017	6,277
Underground Pipe Repair - Men's locker room	2017	6,254
Reg Pchse - (128) SR100	2017	6,144
Hoshizaki Ice Machine; KM-901MAH	2017	5,930
Crosshead Assembly for 1804 Hydrogen Compressor_SNG	2017	5,878
Kainani Villas Ph 1 - Mains	2017	5,494
Repl Split A/C for Engineer	2017	5,284
Reg Pchse - 13 B34R	2017	5,278
Meter Pchse - (13) AL425	2017	5,278
Reg Pchse - 13 B34R	2017	5,278
Reg Pchse - (108) SR100	2017	5,184
New Bus Blkt Res<\$1k Mtr Inst	2017	5,160
Reg Pchse - 12 Sprague B34R	2017	5,112
Mitsubishi AC Unit - MSY-GE18NA; MUY-GE18NA	2017	5,023
Reg Pchse - 104 SR100	2017	4,992
Meter Pchse-(5) American AL-1000 w/ERTs	2017	4,900
(6) Split Pipe and Cable Locator	2017	4,782
Vehicle Lease Buyout; Veh#4196L 2012 Toyota Corolla	2017	4,602
Vehicle Lease Buyout; Veh#4201L 2012 Toyota Corolla	2017	4,602
20ft ISO Container Storage - SNG	2017	4,554
Reg Pchse - 90 SR100	2017	4,320
Surface Pros for K Nishimura & IS test	2017	4,186
2017 Cathodic Protection Service	2017	4,111
10 - AL425 W.ERTS	2017	4,060
Reg Pchse - (10) B34R	2017	4,060
Reg Pchse - (80) 1813C	2017	4,000
Reg Pchse - 80 SR100	2017	3,840
Meter Pchse 12-AC-425 W/ERTS	2017	3,672
Reg Pchse - 75 SR100	2017	3,600
2 Rotary Vehicle Lift	2017	3,595

Description	Year Completed	Total
Reg Pchse - 5 Sprague B34R	2017	3,408
2016 IT Infrastructure Upgrade - Cap Int	2017	3,300
SURFACE BOOK - TOM YOUNG S/N#885370996340	2017	3,280
Microsoft Surface Book 512GB_S/N 011542170857	2017	3,221
Meter Pchse - (4) AC630 W/ERTS	2017	3,168
Reg Pchse - (4) AC630	2017	3,168
15 - AC 250 W.ERTS	2017	3,105
2016 Cathodic Protection-Service	2017	3,081
Reg Pchse - 64 SR100	2017	3,072
Reg Pchse - 60 1813C	2017	3,060
Microsoft Surface Book 256GB_S/N 010623263757	2017	2,958
Meter Pchse-(10) American AL-425 w/ERTs	2017	2,931
72" Cabinet w/Top Hutch_IG Campbell	2017	2,914
Reg Pchse - 21 Invensys 143	2017	2,856
2 - AL 1000 W.ERTS	2017	2,852
Microsoft Surface Book 256GB_S/N 004338363857	2017	2,839
Kapahulu btn Kuhio&Ala_Cap Interest	2017	2,716
Reg Pchse - (56) SR100	2017	2,688
Mobile Precision 3510 - BWBVR72	2017	2,675
Mobile Precision 3510 - 1WBVR72	2017	2,675
CAB II Wheeler - Holder Install	2017	2,663
Custom 12" and 1/4" Pilot Bit	2017	2,643
Reg Pchse - 6 B34R	2017	2,556
OTC scanner_Kapolei Yard	2017	2,501
3 - Purity Regulators_SNG	2017	2,499
Porta Cool HD Fan - Kapolei Shop	2017	2,487
Reg Pchse - 18 Invensys 143	2017	2,448
Reg Pchse - 48 American 1813C	2017	2,400
PRECISION WORKSTAT 3510 - FINANCE DDH7R72	2017	2,397
PRECISION WORKSTAT 3510 - FINANCE BN78R72	2017	2,397
3 - AC 630 W.ERTS	2017	2,304
Welding Helmet_SNG	2017	2,261
Kukuiula Parcel FF-PH 1 Mtr Install	2017	2,250
Reg Pcshe 44- American 1813C	2017	2,200
Reg Pchse - 5 B34R	2017	2,130
Reg Pcshe 5 - B34R	2017	2,130
Reg Pchse - 5 B34R	2017	2,130
Reg Pchse - 5 Sprague B34R	2017	2,130
3/4" Titanium Impact Wrench_SNG	2017	2,037
LATITUDE E7250 13Z8R72	2017	2,028
LATITUDE E7250 JN39R72	2017	2,028
LATITUDE E7250 2819R72	2017	2,028
LATITUDE E7250 3FD5R72	2017	2,028
LATITUDE E7250 3Z09R72	2017	2,028
LATITUDE E7250 43N8R72	2017	2,028
LATITUDE E7250 50Z8R72	2017	2,028
LATITUDE E7250 5619R72	2017	2,028
LATITUDE E7250 6B89R72	2017	2,028
LATITUDE E7250 75Z8R72	2017	2,028
LATITUDE E7250 BC89R72	2017	2,028
LATITUDE E7250 BJK3R72	2017	2,028
LATITUDE E7250 F019R72	2017	2,028
LATITUDE E7250 G0N8R72	2017	2,028

Description	Year Completed	Total
LATITUDE E7250 H419R72	2017	2,028
LATITUDE E7250 H889R72	2017	2,028
LATITUDE E7250 HCC9R72	2017	2,028
LATITUDE E7250 1KD5R72	2017	2,028
PC hardwares and accessories	2017	1,999
M&P Cremations-Meter&Install	2017	1,976
Propane Gas Ranger Detector: S/N: 1725-066110	2017	1,863
Reg Pchse - 18 Invensys 143	2017	1,854
HP Laser Pro 500 - CNB9J6L5C8 (Garage)	2017	1,830
LATITUDE E7250 7R5YBG2	2017	1,826
LATITUDE E7270 48WLGC2	2017	1,792
LATITUDE E7270 4TPLGC2	2017	1,792
LATITUDE E7270 J7WLGC2	2017	1,792
LATITUDE E7270 BBWLGC2	2017	1,792
LATITUDE E7270 HTPLGC2	2017	1,792
LATITUDE E7270 5WPLGC2	2017	1,792
Reg Pchse - 36 SR100	2017	1,728
Reg Pchse 36 - SR100	2017	1,728
Reg Pchse - 4 B34R	2017	1,704
Reg Pchse - 4 Sprague B34R	2017	1,704
LATITUDE E7250 98TXBG2	2017	1,694
LATITUDE E7250 JSQYBG2	2017	1,694
LATITUDE E7250 GJTZBG2	2017	1,694
LATITUDE E7250 HS5YBG2	2017	1,694
LATITUDE E7250 BT5YBG2	2017	1,694
Reg Pchse - 34 SR100	2017	1,632
Reg Pchse - 12 Invensys 143	2017	1,632
Reg Pchse - 34 SR100	2017	1,632
Reg Pchse - 12 Invensys 143	2017	1,632
Reg Pchse - 12 Invensys 143	2017	1,632
Reg Pchse - 4 B34R	2017	1,624
Reg Pchse 4 - B34R	2017	1,624
Reg Pchse - 4 B34R	2017	1,624
Porta Cool Fan - Kamakee Garage	2017	1,609
Reg Pchse 32 - 1813C	2017	1,600
Reg Pchse - (32) SR100	2017	1,536
Reg Meter-(1) American AL-1000	2017	1,426
New Bus Blkt Svc<\$5k	2017	1,414
Reg Pchse - (1) American 2083	2017	1,404
Reg Pchse - (1) American 2083	2017	1,404
Reg Pchse - 28 1813C	2017	1,400
Reg Pchse - 28 1813C	2017	1,400
Fluke 707 EX Calibrator_SNG	2017	1,381
IT Infrastructure Upgrade - Cap Interest	2017	1,371
Iwilei Rd & Nimitiz Hwy-Cap Interest	2017	1,366
Reg Pchse - 28 SR100	2017	1,344
Reg Pchse - 28 SR100	2017	1,344
2 - Ingersol Rand Air Impact Wrenches_SNG	2017	1,303
Reg Pchse - (1) American 1883PFM	2017	1,300
KAPOLEI GARAGE- 16" PORTA-COOL FAN	2017	1,287
Reg Pchse - 3 Sprague B34R	2017	1,278
Reg Pchse - 3 B34R	2017	1,278
Reg Pchse - 28 1813B	2017	1,242

Description	Year Completed	Total
Reg Pchse - 12 Invensys 143	2017	1,236
Meter Pchse - 3 AL425	2017	1,218
Reg Pchse - 3 B34R	2017	1,218
Reg Pchse - 24 American 1813C	2017	1,200
Reg Pcshe 24- American 1813C	2017	1,200
Portable Generator for NSI	2017	1,180
Justrite Flammable Safety Cabinet	2017	1,178
Reg Pchse - 24 SR100	2017	1,152
Reg Pcshe 24 - SR100	2017	1,152
Reg Pchse - 24 SR100	2017	1,152
Reg Pchse - 8 Invensys 143	2017	1,088
Reg Pchse 20 - 1813C	2017	1,020
Air Compressor	2017	1,012
Pump and Parts for Garage	2017	995
HP Laser Jet M506DN - PHBGR28682 (Dispatch)	2017	959
Executive Chair - Sales Dept [Sharon Shigemoto]	2017	953
Xerox Printer 6HB-024711_Legal CC312	2017	938
Xerox Printer 6HB-024711_Purchasing CC382	2017	938
Xerox Printer 6HB-024711_Billing CC379	2017	938
Xerox Printer 6HB-024711_EHS CC385	2017	938
MVP 600 Pressure Calibration Pump Kit_SNG	2017	894
Cigarette Butt Cans	2017	863
Reg Pchse - 2 B34R	2017	852
Reg Pcshe 2 - B34R	2017	852
Reg Pchse - 2 Sprague B34R	2017	852
Reg Pchse - 2 B34R	2017	852
Reg Pchse - 6 Invensys 143	2017	816
Reg Pchse - 6 Invensys 143	2017	816
Reg Pchse 6 - Invensys 143	2017	816
Reg Pchse - 6 Invensys 143	2017	816
Reg Pchse - 6 Invensys 143	2017	816
Reg Pchse 16 - SR100	2017	768
Portable Air Compressor_SNG	2017	765
Kenmore A/C Window_SNG	2017	756
Kainani Villas Ph 1 - Mtr Install	2017	739
LASERJET P3015 M506DN - Accounting	2017	736
LASERJET P3015 M506DN - Cashiers	2017	736
TV Monitor for Dan Reinheimer (CFO @ TOPA)	2017	735
Williams 1199 - Combo Wrench_SNG	2017	698
SNG - LG A/C for Maintenance Area	2017	638
Reg Pchse - 1 1813B	2017	621
Reg Pchse - 6 Invensys 143	2017	618
Reg Pchse - 6 Invensys 143	2017	618
Reg Pchse - (12) 1813C	2017	600
Reg Pchse - (12) 1813C	2017	600
Standup Desk - Stephanie Iwasaki	2017	598
TV Monitor for Finance	2017	590
Reg Pchse - 12 SR100	2017	576
Reg Pchse - (12) SR100	2017	576
Reg Pchse - 12 SR100	2017	576
Reg Pchse - (12) SR100	2017	576
Wheel Battery Charger_Kapolei	2017	525
New Bus Blkt U Res<\$5k-Mtr Ins	2017	500

Description	Year Completed	Total
Reg Pchse - 1 Invensys 243RPC	2017	480
Reg Pchse - 1 1813B	2017	468
Reg Pchse - 1 B34R	2017	426
Reg Pchse 1 - B34R	2017	426
Reg Pchse 4 - Invensys 143	2017	412
Reg Pchse - 3 Invensys 143	2017	408
Reg Pchse - 8 1813C	2017	408
Reg Pchse - 8 1813C	2017	408
Reg Pchse 1 - B34R	2017	406
Reg Pchse - 8 1813C	2017	400
New Bus Blkt Mains<\$5k	2017	388
Reg Pchse - (8) SR100	2017	384
Reg Pchse - (8) SR100	2017	384
Kalia & Ala Moana-4" Main	2017	383
Reg Pchse - (2) Invensys 143	2017	206
Reg Pchse - (4) 1813C	2017	204
Reg Pchse - 4 1813C	2017	204
Reg Pchse - 4 1813C	2017	200
Reg Pchse - (4) 1813C	2017	200
Reg Pchse - (4) 1813C	2017	200
Reg Pchse - (4) 1813C	2017	200
Reg Pchse - (4) 1813C	2017	200
Reg Pchse - 4 SR100	2017	192
Reg Pchse - 4 SR100	2017	164
M&P Cremations-Cap Int	2017	103
Reg Pchse - 1 SR100	2017	48
Honouliuli WWTP Biogas Upgrading	2018	5,428,943
U Main Rnwl >10', <\$15K	2018	427,165
ERTS Meter Exchge_Waialae Kahala	2018	378,270
U Main Rnwl >10', <\$15K	2018	354,978
U Main Rnwl >10', <\$15K	2018	254,259
ERTs Meter Exchange	2018	250,103
HART - Unforeseen KHG	2018	250,035
U Main Rnwl >10', <\$15K	2018	246,123
New Bus Blkt C/I <\$5,000-Service	2018	232,106
U Main Rnwl >10', <\$15K	2018	227,994
Bare Steel Repl Blkt	2018	221,786
T&D Mobile Data Management	2018	213,648
Bare Steel Repl Blkt	2018	208,563
New Bus Blkt Res<\$5,000-Service	2018	192,573
Mimix Software & 8286 Model [CIS backup server]	2018	165,440
Manlift - SNG Lift	2018	159,851
U Main Rnwl >10', <\$15K	2018	138,340
U Main Rnwl >10', <\$15K	2018	135,691
U Main Rnwl >10', <\$15K	2018	134,141
1304 H2/Naptha Superheater	2018	130,812
Honouliuli WWTP Biogas - Cap Int	2018	130,234
U Main Rnwl >10', <\$15K	2018	128,259
Bare Steel Repl Blkt	2018	123,915
SNG - Diesel Tank Upgrade	2018	110,502
LNG - 30% SNG Conversion - Cap Interest	2018	106,270
New Bus Blkt C/I <\$5,000-Service	2018	96,630
New Bus Blkt Res<\$5,000-Service	2018	90,121

Description	Year Completed	Total
Kamakee - Mailroom Bell & Howell Bill Folder	2018	82,225
Bare Steel Repl Blkt	2018	79,104
U Svc Rnwl >10', <\$10K	2018	77,937
New Bus Blkt C/I <\$5,000-Service	2018	71,171
Carbonate Solution Pump 500HP	2018	70,728
U Main Rnwl >10', <\$15K	2018	70,656
2017 Ford F450 Flatbed Truck; Veh #4340	2018	67,432
New Bus Blkt C/I <\$5,000-Service	2018	66,717
2017 Cathodic Protection Main	2018	64,100
2018 Ford F550_Veh#4350	2018	62,705
U Svc Rnwl >10', <\$10K	2018	62,008
U Svc Rnwl >10', <\$10K	2018	60,644
New Bus Blkt C/I <\$5,000-Mtr Inst	2018	59,002
New Bus Blkt Res<\$5,000-Service	2018	55,085
Dell XC730XD for ESXi (Nutanix)	2018	53,933
New Bus Blkt C/I <\$5,000-Service	2018	51,956
New Bus Blkt C/I <\$5,000-Mtr Inst	2018	47,765
Kamakee - HR Dept re-carpeting improvement	2018	47,609
U Blanket Service Renewal	2018	47,402
2017 Cathodic Protection Main	2018	47,098
New Bus Blkt Res<\$5,000-Service	2018	46,782
U Svc Rnwl >10', <\$10K	2018	46,778
Bare Steel Repl Blkt	2018	46,719
U Svc Rnwl >10', <\$10K	2018	46,517
Kapiolani&Ward-8" Supply Line - Cap Int	2018	46,164
2017 Cathodic Protection Main	2018	44,950
Panda's Kapolei_Mains	2018	43,250
15 - Cust Svc Sensit G2 gas detectors w/calibration station	2018	40,755
Grace Pacific Reg Station	2018	40,749
Meter Pchse - 180 AC-250 W/ERTS	2018	39,420
Meter Pchse - 180 AC-250 W/ERTS	2018	38,880
2018 Chevrolet Colorado; Veh#4351 - Repl Svc Trk #4092	2018	37,681
(7) XSLate Tablets	2018	37,493
Meter Pchse-180 American AC-250	2018	37,260
Pressure-rate Specialty Hoses	2018	37,173
Multiple Property Blanket - Residential Svc	2018	36,757
2018 Chevrolet Colorado; Veh#4339 - Repl van #4035	2018	36,744
2018 Chevrolet Colorado; Veh#4341 - Repl van #4080	2018	35,739
Kukui'ula Dev - Parcel A Noho	2018	33,730
2018 Cathodic Protection Main	2018	32,530
2017 Cathodic Protection Main	2018	32,470
U Svc Rnwl >10', <\$10K	2018	30,522
Meter Pchse - 140 AC-250 W/ERTS	2018	30,240
New Bus Blkt C/I <\$5,000-Mtr Inst	2018	29,902
2018 Toyota Tacoma; Veh#4342 - Repl #4091	2018	29,810
Multiple Property Blanket - Residential Svc	2018	29,729
New Bus Blkt C/I <\$5,000-Mtr Inst	2018	29,142
2017 Toyota Tacoma; Veh#4343 - Repl #3075	2018	28,908
New Bus Blkt Res<\$5k Mtr Inst	2018	28,760
1304 01/02 concrete foundation repair	2018	27,770
2017 Cathodic Protection Main	2018	27,030
Waiawa Correct Facility-Svc	2018	26,335
Meter Pchse - (120) AC-250 W/ERTS	2018	26,280

Description	Year Completed	Total
Meter Pchse - 120 AC-250 W/ERTS	2018	26,280
Booth Road 2" Main	2018	26,103
25 Portable Radios for SNG	2018	26,006
Meter Pchse - (18) AL1000 W/ERTS	2018	25,668
Insulation Multimeter_SNG	2018	24,798
2017 Toyota Tacoma 4x2; Veh#4344 - Repl #4065	2018	23,847
U Svc Rnwl >10', <\$10K	2018	22,619
2018 U Blkt Main Rnwl	2018	22,325
New Bus Blkt Res<\$5k Mtr Inst	2018	21,336
New Bus Blkt Res<\$1,000-Mtr Inst	2018	20,882
Meter Pchse - (26) AC-630 w/ERTS	2018	20,514
Meter Pchse-90 American AC-250	2018	20,007
Meter Pchse - (14) AL1000 W/ERTS	2018	19,964
2018 Toyota Corolla; Veh#4355	2018	19,314
Service Renewal - Blanket	2018	19,194
Main Renewal - Blanket	2018	19,101
Tripler Army Med Ctr-Install	2018	17,181
Kalaniana'ole Hwy& West Hind Dr	2018	16,779
2017 Cathodic Protection Service	2018	16,007
Security Camera_Contrl Room	2018	15,642
Meter Pchse - (36) AL425 W/ERTS	2018	14,940
Repl Pipe Trailer #4109	2018	14,790
Meter Pchse - (48) AL425	2018	14,688
Meter Pchse-36 American AL-425	2018	14,328
Meter Pchse - 10 AL-1000 W/ERTS	2018	14,310
New Bus Blkt Svc<\$5k	2018	14,015
Panda's Kapolei_Svc	2018	13,879
02 Benfield Drain Replacement	2018	13,489
(10) 7050 SFF PCs	2018	13,450
2017 Cathodic Protection Service	2018	13,218
Meter Pchse - 60 AC-250 W/ERTS	2018	13,140
Meter Pchse - 60 AC-250 W/ERTS	2018	12,960
60- American AC-250 w/ERTs	2018	12,960
2017 Cathodic Protection Service	2018	12,884
Meter Pchse (9) AL-1000 W/ERTS	2018	12,879
Meter Pchse - 9 AL-1000 W/ERTS	2018	12,879
Meter Pchse - (9) AL1000 W/ERTS	2018	12,834
Meter Pchse (60)- American AC-250	2018	12,720
Meter Pchse-60 American AC-250	2018	12,720
U Blanket Service Renewal	2018	12,138
HART Airport_Cap Interest	2018	11,654
Meter Pchse - (8) AL1000	2018	11,448
Pier 38 Security Monitor	2018	11,223
U Main Rnwl >10', <\$15K	2018	11,092
2017 U Blkt Main Rnwl	2018	11,086
Kapiolani Blvd & Kaaha St	2018	10,125
Meter Pchse - (24) AL425	2018	9,960
Meter Pchse - 45 AC-250 W/ERTS	2018	9,855
Meter Pchse (11) AC-630 W/ERTS	2018	9,783
Meter Pchse - (12) AC-630	2018	9,468
1150E Zeiman Trailer	2018	9,271
New Bus Blkt U Res<\$5k-Svc	2018	9,143
New Bus Blkt U Res<\$5k-Mtr Ins	2018	8,763

Description	Year Completed	Total
Meter Pchse - (40) AC250	2018	8,640
Meter Pchse 40-AC-250 W/ERTS	2018	8,480
(2) Garage Storage Cabinets	2018	8,398
Texa-Truck Laptop	2018	8,355
Kilauea Lighthouse Villag-Main	2018	8,340
Fire Hydrant Replacement @ SNG	2018	8,088
Kamakee Facility - Glass and Door improvement	2018	7,893
Meter Pchse (10) AC-630 W/ERTS	2018	7,890
New Bus Blkt U Res<\$5k-Mtr Ins	2018	7,140
GGP AMC, The Lanai-Mtr Install	2018	6,870
2017 Cathodic Protection Service	2018	6,430
Service Renewal - Blanket	2018	6,257
Reg Pchse - (124) SR100	2018	6,200
2018 Cathodic Protection Service	2018	6,162
(2) Split AC_Mitsubishi_MSZGL09NA SNG M Vickers Office	2018	6,104
Vehicle Lease Buyout; Veh#4203L 2012 Chevrolet Colorado	2018	5,617
Waiawa Correct Facility-Tank Install	2018	5,548
HART - Unforeseen Farrington Hwy	2018	5,052
New Bus Blkt Res<\$5 Mtr Install	2018	4,993
Meter Pchse - (12) AL425	2018	4,980
Meter Pchse - (12) AL425	2018	4,872
Meter Pchse - (12) AL425	2018	4,872
Meter Pchse - (12) AL425	2018	4,872
Vehicle Lease Buyout; Veh#4208L 2012 Toyota Tacoma	2018	4,817
Reg Pchse - 100 SR100	2018	4,800
Reg Pchse - 92 SR100	2018	4,416
Reg Pchse - 10 Sprague B34R	2018	4,260
Meter Pchse-20 American AC-250	2018	4,240
Reg Pchse - (84) SR100	2018	4,200
6 - Sensit Gas Analyzers	2018	4,185
Kamakee Training Room (2) Mitsubishi AC System	2018	4,132
Reg Pchse - (80) SR100	2018	4,000
Reg Pchse - (82) SR100	2018	3,936
Reg Pchse - 80 SR100	2018	3,840
Reg Pchse - (36) Invensys 143	2018	3,816
Meter Pchse 12-AC-425 W/ERTS	2018	3,672
1 GIGE Cisco transciever module	2018	3,609
Williams Tool for Mechanics_SNG	2018	3,453
Main Renewal - Blanket	2018	3,452
2017 IT Infrastructure Upgrade	2018	3,368
Microsoft Surface book_ Steve McGovern	2018	3,111
Split AC_Mitsubishi_MSZGL06NA SNG Tool Room	2018	3,052
Split AC_Mitsubishi_MXZ3C24NA2 SNG Outdoor Unit	2018	3,052
Reg Pchse - 56 American 1813C	2018	2,856
2 - American AL 1000 w/ERTs	2018	2,852
Reg Pchse - (7) B34R	2018	2,842
Kamakee Garage - Tool Box Workstation	2018	2,842
Reg Pchse - (56) SR100	2018	2,800
Meter Pchse 30-AC-250 W/ERTS	2018	2,730
Precision 5520_CKF64M2	2018	2,705
Precision 5520_JKF64M2	2018	2,705
IRH300 Pipe Trailer for Veh#4109	2018	2,607
7110A Norco - 10 ton Air Hydraulic	2018	2,576

Description	Year Completed	Total
Iwilei Rd & Nitmitz Hwy	2018	2,543
Split AC_Mitsubishi_MSXD36NA SNG Kitchen	2018	2,516
Split AC_Mitsubishi_MUYD36NA SNG Outside Kitchen window	2018	2,516
HPE 480 GB SATA 6G MU SFF SC DS SSD	2018	2,514
Reg Pchse - (52) SR100	2018	2,496
2017 Cathodic Protection Service	2018	2,474
Reg Pchse - 6 B34R	2018	2,436
Reg Pchse - (6) B34R	2018	2,436
Reg Pchse - 44 1813C	2018	2,244
Hammer Drill	2018	2,174
Cisco Meraki's	2018	2,032
ERTs Meter Exchange - Cap Int	2018	1,997
1304 H2/Naptha Cap Interest	2018	1,949
Reg Pchse - 18 Invensys 143	2018	1,854
Dell Latitude w/monitors E7280_220HNNH2	2018	1,821
Dell Latitude w/monitors E7280_930HNNH2	2018	1,821
Dell Latitude w/monitors E7280_J00HNNH2	2018	1,821
Dell Latitude w/monitors E7280_800HNNH2	2018	1,821
Dell Latitude w/monitors E7280_D50HNNH2	2018	1,821
Dell Latitude w/monitors E7280_H5FFFH2	2018	1,809
Dell Latitude w/monitors E7280_3WHDFH2	2018	1,809
Dell Latitude w/monitors E7280_9CWDFH2	2018	1,809
Dell Latitude w/monitors E7280_F8WDFH2	2018	1,809
Dell Latitude w/monitors E7280_FMPDFH2	2018	1,809
Dell Latitude w/monitors E7280_GTHDFH2	2018	1,809
Dell Latitude w/monitors E7280_4T1FFH2	2018	1,809
Dell Latitude w/monitors E7280_F5FFFH2	2018	1,809
Dell Latitude w/monitors E7280_FFPDFH2	2018	1,809
Dell Latitude w/monitors E7280_FVYCFH2	2018	1,809
Reg Pchse - (36) SR100	2018	1,728
NETDIRECTOR 16 PORT 1U RACK MOUNT CONSOLE	2018	1,712
LHP-200 Lyco Hydraulic Tool	2018	1,595
Reg Pchse 32 - SR100	2018	1,536
Reg Pchse 32 - SR100	2018	1,536
New Bus Blkt Res<\$1,000-Mtr Inst	2018	1,534
Reg Pchse - (28) 1813C	2018	1,428
Reg Pchse 28- American 1813C	2018	1,428
Meter Pchse 15-AC-250 W/ERTS	2018	1,365
Reg Pchse - (12) Invensys 143	2018	1,272
Reg Pchse - (12) Invensys 143	2018	1,272
Reg Pchse - 12 Invensys 143	2018	1,236
Reg Pchse - 12 Invensys 143	2018	1,236
Reg Pchse - 3 B34R	2018	1,218
Reg Pchse - (3) B34R	2018	1,218
Reg Pchse - (3) B34R	2018	1,218
Reg Pchse - (3) B34R	2018	1,218
Reg Pchse 3 - B34R	2018	1,218
Tripler Army Med Ctr-Svc	2018	1,217
Reg Pchse - (24) 1813C	2018	1,200
Panda's Kapolei_Cap Int [Mains]	2018	1,186
Mimix Software [CIS backup server] Cap interest	2018	1,164
Pier 38 Tarp for Air Compressor Water Fluid	2018	1,152
Reg Pchse - (24) SR100	2018	1,152

Description	Year Completed	Total
Portable Generator for NSI	2018	1,073
Reg Pchse - 20 1813C	2018	1,020
Reg Pchse 20 - 1813C	2018	1,020
Reg Pchse 20 - SR100	2018	960
Reg Pchse 20 - SR100	2018	960
Reg Pchse - (20) SR100	2018	960
7200 Norco 22 ton Air Hydraulic	2018	945
Panda's Kapolei_Cap Int [Svc]	2018	939
Kahala Mall Gas - Mtr Install	2018	873
Tool Box for truck #4209	2018	856
Reg Pchse - 2 Sprague B34R	2018	852
Reg Pchse - 2 Sprague B34R	2018	852
Reg Pchse - (16) 1813C	2018	816
Reg Pchse - 16 American 1813C	2018	816
Reg Pchse - 2 B34R	2018	812
Reg Pchse - (2) B34R	2018	812
Reg Pchse - (16) SR100	2018	800
Reg Pchse - (16) SR100	2018	800
Reg Pchse 20 - SR100	2018	768
Reg Pchse - 16 SR100	2018	768
IDS Scan Tool	2018	681
Reg Pchse - (6) Invensys 143	2018	636
Reg Pchse - (6) Invensys 143	2018	636
Reg Pchse - 6 Invensys 143	2018	636
Reg Pchse - (6) Invensys 143	2018	618
Reg Pchse - 12 American 1813C	2018	612
Reg Pchse - (12) 1813C	2018	612
Reg Pchse - (12) 1813C	2018	612
Reg Pchse - (12) 1813C	2018	612
Reg Pchse - 12 American 1813C	2018	600
Reg Pchse - (12) 1813C	2018	600
Emergency Project	2018	592
PD-C Oscillator	2018	583
Reg Pchse 12 - SR100	2018	576
Reg Pchse 12 - SR100	2018	576
Brother GX-6750 Daisy Wheel Electric Typewriter	2018	554
Reg Pchse 1 -Sprague B34R	2018	426
Reg Pchse - 1 B34R	2018	406
Reg Pchse 8-American 1813C	2018	400
Reg Pchse - (8) 1813C	2018	400
Reg Pchse 8 - SR100	2018	400
Reg Pcshe 8 - SR100	2018	384
Kahala Mall Gas Expansion - Svc	2018	276
New Bus Blkt U Res<\$5k-Svc	2018	271
Reg Pchse - 4 1813C	2018	204
Reg Pchse - (4) 1813C	2018	204
Reg Pcshe 4- American 1813C	2018	204
Reg Pchse - (4) 1813C	2018	204
Reg Pcshe 4- American 1813C	2018	204
Reg Pchse - (4) 1813C	2018	200
Reg Pchse - (4) 1813C	2018	200
Reg Pchse - (4) SR100	2018	200
Reg Pchse - (4) 1813C	2018	200

Description	Year Completed	Total
Reg Pchse - (4) 1813C	2018	200
Reg Pchse - (4) SR100	2018	192
Reg Pchse - 4 SR100	2018	192
Reg Pchse 4 -SR100	2018	192
Reg Pchse - (4) American 1813C	2018	180
T&D Mobile Data Upgrade	2019	357,603
GIS Upgrade Phase 2 Version 10.2	2019	324,148
U Main Rnwl >10', <\$15K	2019	299,855
New Bus Blkt C/I <\$5,000-Service	2019	217,617
02 Deaerator & 02 Hydrogen Insulation Upgrade	2019	207,871
2019 Kenworth T370_Veh#4356	2019	188,495
U Main Rnwl >10', <\$15K	2019	188,364
U Main Rnwl >10', <\$15K	2019	187,443
Ho'opili Phase 1 - Mains	2019	172,465
Bare Steel Repl Blkt	2019	166,965
U Main Rnwl >10', <\$15K	2019	156,361
U Main Rnwl >10', <\$15K	2019	153,318
LNG ISO Staging Area Improvement	2019	151,649
U Main Rnwl >10', <\$15K	2019	147,289
02 H2 Super Heater Shells	2019	142,909
U Main Rnwl >10', <\$15K	2019	134,963
U Main Rnwl >10', <\$15K	2019	131,946
Great Plains Server Space Growth; 3 Dell EMC XC640ENT for ESXI; 5B3DCP2 5B3CCP2	2019	129,939
2019 Ford F550_Veh#4359 1FDUF5GT1KDA02912	2019	129,745
2019 Ford F550_Veh#4358 1FDUF5GTXKDA02911	2019	129,745
2019 Ford F550_Veh#4360 1FDUF5GT3KDA02913	2019	129,667
U Main Rnwl >10', <\$15K	2019	125,809
New Bus Blkt Res<\$5,000-Service	2019	125,075
New Bus Blkt C/I <\$5,000-Service	2019	120,282
Bare Steel Repl Blkt	2019	111,295
Repl Kaneohe Reg Station Manifold	2019	110,428
New Bus Blkt Res<\$5,000-Service	2019	107,146
Ho'opili Phase 1 - Svc	2019	104,851
New Bus Blkt Res<\$5,000-Service	2019	101,495
SNG Office Remodeling	2019	98,851
New Bus Blkt Res<\$5,000-Service	2019	98,160
U Svc Rnwl >10', <\$10K	2019	94,421
New Bus Blkt Res<\$5,000-Service	2019	93,818
Ho'opili Phase 1 - Mtr Installation	2019	79,242
Truck Wheel Lift - Stertil Koni ST1085-6	2019	79,054
02 Benfield & 02 Hydrogen Piping Replacement	2019	77,753
U Svc Rnwl >10', <\$10K	2019	77,315
U Svc Rnwl >10', <\$10K	2019	77,062
2017 Cathodic Protection Mains	2019	72,032
Utility Holder TMP	2019	68,221
New Bus Blkt C/I <\$5,000-Service	2019	68,187
A&B Properties - Meter Installation	2019	65,910
New Bus Blkt C/I <\$5,000-Service	2019	64,627
New Bus Blkt C/I <\$5,000-Service	2019	63,313
New Bus Blkt C/I <\$5,000-Service	2019	63,046
UPS System Repairs	2019	60,060
New Bus Blkt C/I <\$5,000-Mtr Inst	2019	56,868
New Bus Blkt Res<\$5,000-Service	2019	56,063

Description	Year Completed	Total
New Bus Blkt C/I <\$5,000-Service	2019	54,617
HART B1 6" Waimano Rd	2019	54,203
U Main Rnwl >10', <\$15K	2019	51,177
Replace 2 Modicon Hardware for Demineralizer	2019	49,973
SNG Lift Cylinder-RT 500E	2019	45,631
Repl Barbed Wire and Fence @ Kaneohe Holder	2019	43,785
2019 Cathodic Protection Mains	2019	41,230
New Bus Blkt Res<\$5,000-Mtr Inst	2019	40,989
U Svc Rnwl >10', <\$10K	2019	39,135
SNG Control Room/Switch Gear Hse-Guardrail	2019	37,951
(2) Calorimeter	2019	36,812
SNG Maintenance Office Renovation	2019	35,256
ERTs Meter Exchange	2019	34,404
Kamakee Facility Improvement [Sales; Warehouse; HR]	2019	33,987
2018 Chevrolet Silverado; Veh#4366	2019	33,206
Utility Sphere TMP	2019	31,845
Meter Pchse - (144) AC-250 W/ERTS	2019	31,536
Meter Pchse - (144) AC-250 W/ERTS	2019	31,536
New Bus Blkt C/I <\$5,000-Mtr Inst	2019	31,420
2019 Cathodic Protection Mains	2019	31,418
2019 Cathodic Protection Svc	2019	31,138
U Svc Rnwl >10', <\$10K	2019	29,513
Meter Pchse - (132) AC-250 W/ERTS	2019	28,908
New Bus Blkt C/I <\$5,000-Mtr Inst	2019	28,780
Meter Pchse - 19 AL-1000 W/ERTS	2019	27,797
ARC Valve_01 Heavy Naptha Pump	2019	27,173
Meter Pchse (18) AL-1000 W/ERTS	2019	26,334
Hualalai Parcel 14- Mtr & Install	2019	24,969
Beamex Calibrator/Communicator	2019	24,946
New Bus Blkt Res<\$5,000-Service	2019	23,825
Main Renewal - Blanket	2019	23,099
New Bus Blkt Res<\$5 Mtr Install	2019	21,959
96- American AC-250	2019	21,024
A&B Properties - Svc	2019	20,979
Beamex MC6-Calibrator	2019	20,830
New Bus Blkt C/I <\$5,000-Service	2019	20,485
Hualalai Parcel 14- Svc	2019	20,065
Repl SNG plumbing drain line	2019	15,916
New Bus Blkt Res<\$5,000-Service	2019	15,810
Meter Pchse - (72) AC-250 W/ERTS	2019	15,768
Meter Pchse - (36) AL425 W/ERTS	2019	14,940
New Bus Blkt U Res<\$5k-Svc	2019	14,220
2 - Lifesize Icon 700 DSS video conferencing [TOPA]	2019	14,096
2 - Lifesize Icon 700 DSS video conferencing [KAMAKEE]	2019	14,096
Repl 1306-06 Heater Tube Bundle	2019	13,840
Meter Pchse - (216) BK-250 W/ERTS	2019	13,392
Meter Pchse - (60) AC-250 W/ERTS	2019	13,140
60- American AC-250	2019	13,140
Meter Pchse - (60) AC-250 W/ERTS	2019	13,140
New Bus Blkt Res<\$5,000-Mtr Inst	2019	12,968
New Bus Blkt C/I <\$5,000-Mtr Inst	2019	12,690
New Bus Blkt Svc<\$5k	2019	12,605
Meter Pchse - (30) AL425 W/ERTS	2019	12,450

Description	Year Completed	Total
Gate Laundry Svc-Mtr Install	2019	12,256
Replace hose & fitting @ Pier 38	2019	11,937
Dynasty 400 Welding Machine	2019	11,500
XLPE 1k gallon caustic tank	2019	10,560
48- American AC-250 w/ERTS	2019	10,512
Meter Pchse - 48 AC-250 W/ERTS	2019	10,512
Meter Pchse - (12) AC-630 w/ERTS	2019	9,756
New Bus Blkt Res<\$5,000-Mtr Inst	2019	9,634
New Bus Blkt C/I <\$5,000-Mtr Inst	2019	8,753
Pneumatic Rotary Actuator	2019	8,639
Intercom System - SNG control room	2019	8,614
Meter Pchse - (20) AL425	2019	8,300
Meter Pchse - (10) AC-630	2019	8,130
Bare Steel Repl Blkt	2019	8,004
Ho'opili Phase 1 - Cap Int	2019	7,951
Meter Pchse - 128 BK250 W/ERTS	2019	7,936
XLHDPE 1k gallon double wall caustic tank	2019	7,395
Meter Pchse - (33) AC-250 W/ERTS	2019	7,227
Kamakee Garage-Tire Changer Coats 60XE1	2019	7,118
1 - Lifesize Icon 700 DSS video conferencing [SNG]	2019	7,048
New Bus Blkt Res<\$5,000-Mtr Inst	2019	6,806
Meter Pchse - (16) AL425 W/ERTS	2019	6,640
Meter Pchse - (8) AC-630 w/ERTS	2019	6,504
Antennas for GPS unit	2019	6,503
Reg Pchse - 136 SR100	2019	6,392
New Bus Blkt Res<\$5k Mtr Inst	2019	6,358
Reg Pchse - (120) SR100	2019	6,000
Meter Pchse 48-AC-250 W/ERTS	2019	5,664
Ho'opili Phase 1 - Cap Int	2019	4,790
ERTs Meter Exchange - Cap Int	2019	4,707
Reg Pchse - 100 SR100	2019	4,700
Airetool Rotor	2019	4,677
Reg Pchse - (11) B34R	2019	4,466
Kamakee Garage-Air Conditioning Cart	2019	4,187
2 - Lifesize Icon 450 DSS video conferencing [TOPA]	2019	4,064
1 - Lifesize Icon 450 DSS video conferencing [SNG]	2019	4,064
2 - Lifesize Icon 450 DSS video conferencing [KAMAKEE]	2019	4,064
Meter Pchse - 64 BK250 W/ERTS	2019	3,968
2 - Lifesize Icon 400 DSS video conferencing [TOPA]	2019	3,954
Insulation Upgrade Blanket_SNG	2019	3,833
Reg Pchse - (76) SR100	2019	3,800
Ho'opili Phase 1 - Cap Int	2019	3,799
2018 U Blkt Main Rnwl	2019	3,777
HART - GNG1363 2" Reloc	2019	3,657
Reg Pchse - (72) SR100	2019	3,600
Great Plains Server Space Growth - Cap Int	2019	3,403
Reg Pchse - (68) SR100	2019	3,400
Workstation for Garage Administration	2019	3,351
Meter Pchse - (4) AC-630	2019	3,252
HART - GNG1362 2" Reloc	2019	3,048
Reg Pchse - (52) American 1813C	2019	2,756
Dell Latitude w/2 monitors E7290 95461N2	2019	2,718
Dell Latitude w/2 monitors E7290 9Y961N2	2019	2,718

Description	Year Completed	Total
Dell Latitude w/2 monitors E7290 BK771N2	2019	2,718
Dell Latitude w/2 monitors E7290 C6461N2	2019	2,718
Dell Latitude w/2 monitors E7290 D4461N2	2019	2,718
Dell Latitude w/2 monitors E7290 1QH61N2	2019	2,718
Dell Latitude w/2 monitors E7290 2MY51N2	2019	2,718
Dell Latitude w/2 monitors E7290 36W61N2	2019	2,718
Dell Latitude w/2 monitors E7290 3KY51N2	2019	2,718
Dell Latitude w/2 monitors E7290 3Z961N2	2019	2,718
Dell Latitude w/2 monitors E7290 4T961N2	2019	2,718
Dell Latitude w/2 monitors E7290 5B461N2	2019	2,718
Dell Latitude w/2 monitors E7290 67461N2	2019	2,718
Dell Latitude w/2 monitors E7290 8NH61N2	2019	2,718
Dell Latitude w/2 monitors E7290 9H1C1N2	2019	2,718
Dell Latitude w/2 monitors E7290 B3461N2	2019	2,718
Dell Latitude w/2 monitors E7290 BX961N2	2019	2,718
Dell Latitude w/2 monitors E7290 D1B61N2	2019	2,718
Dell Latitude w/2 monitors E7290 23Y81N2	2019	2,718
Dell Latitude w/2 monitors E7290 2Q171N2	2019	2,718
Dell Latitude w/2 monitors E7290 3FY51N2	2019	2,718
Dell Latitude w/2 monitors E7290 3R171N2	2019	2,718
Dell Latitude w/2 monitors E7290 4H1C1N2	2019	2,718
Dell Latitude w/2 monitors E7290 4W171N2	2019	2,718
Dell Latitude w/2 monitors E7290 5QY51N2	2019	2,718
Dell Latitude w/2 monitors E7290 68461N2	2019	2,718
Dell Precision 5520 w/2 monitors 24LP5M2	2019	2,684
Dell Precision 5520 w/2 monitors 88LP5M2	2019	2,684
Dell Precision 5520 w/2 monitors DZ8Q5M2	2019	2,684
Dell Precision 5520 w/2 monitors GROP5M2	2019	2,684
Dell Precision 5520 w/2 monitors HM7F5M2	2019	2,684
Replace carpet @ Kamakee PMO Office	2019	2,641
SNG Office - Solstice Pod	2019	2,639
Multiple Property Blanket - Residential Svc	2019	2,635
Reg Pchse - 56 SR100	2019	2,632
Reg Pchse - (52) SR100	2019	2,600
U Blanket Service Renewal	2019	2,569
Dell Latitude w/2 monitors E7290 1GVJ4Q2	2019	2,536
Dell Latitude w/2 monitors E7290 87VJ4Q2	2019	2,536
Dell Latitude w/2 monitors E7290 5WNJ4Q2	2019	2,536
2018 U Blkt Main Rnwl	2019	2,528
Meter Pchse - (6) AL425	2019	2,490
Propress 12V Battery Tool	2019	2,226
New Bus Blkt U Res<\$5k-Mtr Ins	2019	2,212
Reg Pchse - (44) SR100	2019	2,200
Reg Pchse - (5) B34R	2019	2,135
Reg Pchse - (5) B34R	2019	2,030
Reg Pchse - (18) Invensys 143	2019	1,908
Reg Pchse - (18) Invensys 143	2019	1,908
2 Split Box Pipe Locators	2019	1,697
Reg Pchse - 36 SR100	2019	1,692
Reg Pchse - 24 Belgas P143	2019	1,680
Meter Pchse - (2) AC-630 w/ERTS	2019	1,626
Reg Pchse - (4) B34R	2019	1,624
Reg Pchse - (4) B34R	2019	1,624

Description	Year Completed	Total
Reg Pchse - (4) B34R	2019	1,624
Reg Pchse - (4) B34R	2019	1,624
Flow Control Regulator	2019	1,580
Friedrich AC Unit - SNG	2019	1,576
Anti Torque Drill for LPG Surveys ETC	2019	1,465
Reg Pchse 28 - 1813C	2019	1,428
Reg Pchse - (28) SR100	2019	1,400
Calibrator	2019	1,325
Reg Pchse - (24) American 1813C	2019	1,272
Reg Pchse 24 - 1813C	2019	1,224
Reg Pchse - (3) B34R	2019	1,218
Reg Pcshe 24 - SR100	2019	1,200
20 amp 3 phase sub panel and outlet	2019	1,189
New Bus Blkt Res<\$5 Mtr Install	2019	1,129
Tools for NSI	2019	1,081
Reg Pchse - 10 Invensys 143	2019	1,060
Reg Pchse 20 - 1813C	2019	1,000
Reg Pchse - (20) SR100	2019	1,000
Reg Pchse - (20) SR100	2019	1,000
Smart-Cal Combo Calibration Gas Kit	2019	899
Reg Pchse - (1) B34R	2019	854
Reg Pchse - (2) B34R	2019	854
Reg Pchse - (2) B34R	2019	854
Battery inverter for truck #4339	2019	851
Reg Pcshe 16- American 1813C	2019	848
Reg Pchse - 12 Belgas P143	2019	840
Model CI-50 Current Interrupter	2019	839
Reg Pcshe 16- American 1813C	2019	816
Reg Pchse - (2) B34R	2019	812
Reg Pcshe 2 - B34R	2019	812
Reg Pchse - (2) B34R	2019	812
Tire Pressure monitor scan tool	2019	754
Reg Pchse - (6) Invensys 143	2019	636
Reg Pchse - 6 Invensys 143	2019	636
Reg Pchse - (6) Invensys 143	2019	636
Reg Pchse - 12 American 1813C	2019	636
Reg Pchse - 12 American 1813C	2019	636
2018 U Blkt Main Rnwl	2019	630
Reg Pchse 12 - 1813C	2019	612
Pneumatic Blower	2019	605
Chisel 65P	2019	575
Reg Pchse - (10) American 1813C	2019	510
Reg Pchse - (4) Invensys 143	2019	424
Reg Pchse - (8) 1813C	2019	424
Reg Pchse - 6 Belgas P143	2019	420
Reg Pchse - (8) 1813C	2019	408
Reg Pchse - (8) 1813C	2019	408
Reg Pchse - (8) 1813C	2019	408
Reg Pchse - (8) 1813C	2019	408
Reg Pchse - (8) 1813C	2019	408
Reg Pchse - (8) 1813C	2019	408
Reg Pchse 8 - SR100	2019	400
Reg Pchse - (8) SR100	2019	400

Description	Year Completed	Total
Reg Pchse - (8) 1813C	2019	400
Reg Pchse - (8) SR100	2019	384
Reg Pchse - (6) 1813C	2019	306
Reg Pchse - 4 Belgas P143	2019	280
Reg Pchse - (2) Invensys 143	2019	212
Reg Pchse - (4) 1813C	2019	204
Reg Pchse - (4) 1813C	2019	204
Reg Pchse - (4) 1813C	2019	204
Reg Pchse - (4) 1813C	2019	204
Reg Pchse - (4) 1813C	2019	204
Reg Pchse - (4) 1813C	2019	204
Reg Pchse - (8) 1813C	2019	204
Reg Pchse - (4) SR100	2019	200
2017 Cathodic Protection Service	2019	141
Reg Pchse - 2 Belgas P143	2019	140
1501-01 Naptha Feed Pump	2020	279,629
Bare Steel Repl Blkt	2020	212,371
Bare Steel Repl Blkt	2020	207,783
(4) 2k gal tanks @ 6th increment holder	2020	189,783
Beretania-Isenberg to Farrington	2020	170,363
Sand Island Regulator Station	2020	169,609
GIS Hardware Upgrade_Intel Xeon Processor_19SM6K370147	2020	168,780
U Main Rnwl >10', <\$15K	2020	166,837
New Bus Blkt C/I <\$5,000-Service	2020	153,300
U Main Rnwl >10', <\$15K	2020	151,769
New Bus Blkt C/I <\$5,000-Service	2020	144,840
Luana Villas @ Honua Kai	2020	143,796
Blkt Insulation Upgrade	2020	134,884
LNG Transfer System Improve	2020	132,296
ERTS Meter Exchge	2020	128,015
U Main Rnwl >10', <\$15K	2020	127,040
DCS Workstation Upgrade R6	2020	122,884
U Main Rnwl >10', <\$15K	2020	117,746
U Main Rnwl >10', <\$15K	2020	115,468
New Bus Blkt C/I <\$5,000-Service	2020	111,254
New Bus Blkt C/I <\$5,000-Service	2020	109,569
Transmission Vault Door Upgrade @ Makakilo, Kunia, & GP Reg Station	2020	109,213
Vent Silencer	2020	106,067
U Main Rnwl >10', <\$15K	2020	105,188
U Main Rnwl >10', <\$15K	2020	104,848
20-Mini Quad Port Relief Valves	2020	104,329
New Bus Blkt C/I <\$5,000-Service	2020	100,405
U Main Rnwl >10', <\$15K	2020	97,588
Waiehu Homes Utility System	2020	95,343
U Main Rnwl >10', <\$15K	2020	94,331
U Svc Rnwl >10', <\$10K	2020	94,228
New Bus Blkt Res<\$5,000-Service	2020	92,685
A&B Properties - Mains	2020	91,597
2019 Cathodic Protection Mains	2020	87,409
Repl Meter Pipe @ Lahaina Holder	2020	85,960
2019 Cathodic Protection Mains	2020	82,574
2019 Dodge 4500 Dump Truck w/Cab Chassis_Veh#4384	2020	79,335
Repl SNG Valve & Piping to 01 Benfield	2020	73,877

Description	Year Completed	Total
New Bus Blkt C/I <\$5,000-Service	2020	68,675
U Svc Rnwl >10', <\$10K	2020	68,045
1301-03 reformer Effluent Boil	2020	67,198
New Bus Blkt Res<\$5,000-Service	2020	65,054
New Bus Blkt C/I <\$5,000-Mtr Inst	2020	64,079
New Bus Blkt Res<\$5,000-Service	2020	63,660
New Bus Blkt C/I <\$5,000-Service	2020	63,570
New Bus Blkt C/I <\$5,000-Service	2020	61,947
2019 Ford Ranger Veh#4381	2020	59,622
Cisco Phones - Statewide	2020	57,454
U Svc Rnwl >10', <\$10K	2020	56,280
SNG fire water line relocation	2020	56,000
Utility Holder Maintenance-TMP	2020	53,903
New Bus Blkt C/I <\$5,000-Mtr Inst	2020	52,332
New Bus Blkt Res<\$5,000-Service	2020	51,140
HART GNG1465 3" Reloc	2020	50,522
2k Gal-CNG Mix Gas Storage Tank	2020	49,564
Multiple Property Blkt-Svc	2020	43,802
U Main Rnwl >10', <\$15K	2020	42,096
New Bus Blkt U Res<\$5k-Svc	2020	41,897
New Bus Blkt Res<\$5,000-Mtr Inst	2020	40,786
Bare Steel Repl Blkt	2020	38,604
U Svc Rnwl >10', <\$10K	2020	37,754
2020 Cathodic Protection Mains	2020	35,054
New Bus Blkt Res<\$5,000-Mtr Inst	2020	32,533
2019 Cathodic Protection Svc	2020	31,020
Blkt Instrumentation/electrical/control upgrde	2020	29,831
TOPA Renovation I	2020	26,892
2020 Toyota Camry LE_Veh#4383	2020	26,752
Meter Pchse (9) AL-1000 W/ERTS	2020	26,334
2020 Cathodic Protection Svc	2020	25,426
Blkt PSV Replacement	2020	21,963
Honouliuli York Chiller Coils	2020	20,540
Meter Pchse - (48) AL-425 W/ERTS	2020	19,920
A&B Properties - Tank Installation	2020	17,831
New Bus Blkt- Res<\$5k Mtr Inst	2020	15,420
New Bus Blkt C/I <\$5,000-Mtr Inst	2020	15,321
New Bus Blkt Res<\$5,000-Mtr Inst	2020	15,021
Meter Pchse - 36 AL-425 W/ERTS	2020	14,940
1501-01 Naptha Feed Pump - Cap Interest	2020	14,756
HART-JNG1161 4" Reloc	2020	14,395
New Bus Blkt Res<\$5,000-Service	2020	14,340
Replace F5 control valve	2020	13,931
Multiple Property Blkt-Main	2020	13,602
Cisco Routers @ Kauai	2020	13,170
Meter Pchse (9) AL-1000 W/ERTS	2020	13,167
Meter Pchse (9) AL-1000 W/ERTS	2020	13,167
Meter Pchse (9) AL-1000 W/ERTS	2020	13,167
Meter Pchse (9) AL-1000 W/ERTS	2020	13,167
Cisco Routers @ Hilo	2020	12,819
Cisco Routers @ Maui	2020	12,819
A&B Properties - Cap Int	2020	12,599
Marketing Office Renovation @ Kamakee	2020	12,080

Description	Year Completed	Total
Fire Extinguishers w/inspection	2020	11,924
Meter Pchse - 192 BK250 W/ERTS	2020	11,904
Meter Pchse - 192 BK250 W/ERTS	2020	11,904
Meter Pchse - (172) BK250 W/ERTS	2020	10,664
Meter Pchse - 24 AL-425 W/ERTS	2020	9,960
Meter Pchse - 160 BK250 W/ERTS	2020	9,920
(35) tb16 w/240w adapter	2020	9,893
16 - Medium density foam pigs	2020	9,814
16 - heavy density foam pigs	2020	9,814
Meter Pchse - (12) AC-630 w/ERTS	2020	9,756
Meter Pchse - (12) AC-630 w/ERTS	2020	9,756
Meter Pchse - (12) AC-630 w/ERTS	2020	9,756
Cisco Routers @ Kona	2020	9,612
Oahu Sales Kamakee Office	2020	9,514
1871-01 CO2 Big Blower Wire	2020	9,373
Kamakee LED Lighting Upgrade	2020	9,185
(35) BTO 16GB Memory 2400 MHz	2020	8,626
Cisco Routers @ Kamakee	2020	8,620
Rep Split AC @Honouliuli	2020	8,458
3500 lbs Transmission Jack	2020	8,316
Beretania-Isenberg to Farrington - Cap Int	2020	8,214
Meter Pchse - 128 BK250 W/ERTS	2020	7,936
Meter Pchse - (128) BK-250 W/ERTS	2020	7,936
(44) 24" Monitors p2417h & accessories	2020	7,805
Cisco Routers @ TOPA	2020	7,798
Sales conference room-10 chairs w/table	2020	7,711
HART - JNG1204 1.25" Reloc	2020	7,683
High Lift Wheel Dolly	2020	7,508
Cisco Routers @ SNG	2020	7,357
Meter Pchse (5) AL-1000 W/ERTS	2020	7,315
81F Optical Pyrometer	2020	7,210
2 Mikasa Tampers	2020	6,597
Pipe Threading Machine 1/8" to 2"	2020	6,388
HART JNG1211B 2" Reloc	2020	6,329
Beamex FB Temperature Block	2020	5,868
Meter Pchse - (4) AL-1000	2020	5,852
Halona Sreet Bridge Repl	2020	5,658
Reg Pchse - (120) SR100	2020	5,640
HART - JNG1206 2" Reloc	2020	5,608
M10 HE Metal Plate Embosser	2020	5,319
Honda Generator 7000 Watt	2020	5,119
Reg Pchse - 108 SR100	2020	5,076
Meter Pchse-12 American AL-425	2020	4,980
Meter Pchse - 12 AL-425 W/ERTS	2020	4,980
Meter Pchse - (12) AL-425 W/ERTS	2020	4,980
Ingersllarnd 1.5" Impact Gun	2020	4,925
Ice Machine - Garage Dept	2020	4,785
Mitsubishi A/C - Server Room	2020	4,723
Reg Pchse - (11) B34R	2020	4,466
Mitsubishi Split A/C - Marketing Office	2020	4,387
Reg Pchse - (92) SR100	2020	4,324
HART - JNG1212 2" Reloc	2020	4,278
Welding Machine: Miller Multimatic 255	2020	4,069

Description	Year Completed	Total
Meter Pchse - (64) BK-250 W/ERTS	2020	3,968
Meter Pchse - (64) BK-250 W/ERTS	2020	3,968
Meter Pchse - 64 BK250 W/ERTS	2020	3,968
Meter Pchse - 64 BK250 W/ERTS	2020	3,968
HART - JNG1211 2" Reloc	2020	3,951
Replace Women's restroom	2020	3,846
Reroof Meter Shop	2020	3,723
Meter Pchse - (59) BK250 W/ERTS	2020	3,658
Reg Pchse - (9) Sprague B34R	2020	3,654
Reg Pchse - (9) B34R	2020	3,654
3 Mudguns	2020	3,613
Reg Pchse - 76 SR100	2020	3,572
Reg Pchse - (76) SR100	2020	3,572
HART-JNG1214 2" Reloc	2020	3,558
New flooring tiles - Garage room	2020	3,545
Sand Island Regulator Station - Cap Int	2020	3,539
Repl Tanks@6th Increment-cap	2020	3,510
Reg Pchse - (72) SR100	2020	3,384
HART GNG1365 2" Reloc	2020	3,303
Reg Pchse - (68) SR100	2020	3,196
Luana Villas@Honua Kai-Cap Int	2020	3,186
(16) BTO 24" monitors P2419h & accessories	2020	3,124
Baileigh BS-712M metal band saw	2020	3,080
Reg Pchse - (60) SR100	2020	3,000
Marketing Desk - Brian Yee	2020	2,696
Reg Pchse - (56) SR100	2020	2,632
Cordless Tool Kits 14.4V Master Pack	2020	2,590
Warehouse Office Renovation	2020	2,550
Vent Silencer - Cap Interest	2020	2,536
DCS Workstation-Cap Int	2020	2,533
Dell Precision 5530 w/2 monitors 3BGZNF2	2020	2,526
Dell Precision 5530 w/2 monitors 76GZNF2	2020	2,526
Dell Precision 5530 w/2 monitors 9PTPNF2	2020	2,526
Dell Precision 5530 w/2 monitors D7FZNF2	2020	2,526
Dell Precision 5530 w/2 monitors BNTPNF2	2020	2,526
Reg Pchse - (5) B34R	2020	2,455
Reg Pchse 52 - SR100	2020	2,444
2 Mudguns	2020	2,408
Diaphragm Pump	2020	2,330
Reg Pchse - (48) SR100	2020	2,256
Waimanu Street entry metal door	2020	2,254
2 M160A Breakers (1.25"X6")	2020	2,209
Reg Pchse - (40) SR100	2020	2,000
GE 24K BTU A/C - Lunch Room	2020	1,973
Tool lockers for mechanics	2020	1,955
Small Transport Case for FB Series	2020	1,905
Gate Laundry Svc-Mains	2020	1,871
Reg Pchse - (36) SR100	2020	1,800
Dell Latitude 7390_34PJXT2	2020	1,760
Konftel 300WX Conference Phone	2020	1,744
Reg Pchse - (4) B34R	2020	1,708
Optiplex 7060 w/2 monitors 3PHBDV2	2020	1,650
Optiplex 7060 w/2 monitors 3PRBDV2	2020	1,650

Description	Year Completed	Total
Optiplex 7060 w/2 monitors 3PH8DV2	2020	1,650
Optiplex 7060 w/2 monitors 3PHDDV2	2020	1,650
Optiplex 7060 w/2 monitors PPF8DV2	2020	1,650
GIS Hardware Upgrade - Cap Interest	2020	1,623
scanner for A/P invoices	2020	1,554
Dell Precision 5400 w/2 monitors 5LDC8Y2	2020	1,546
Dell Precision 5400 w/2 monitors 2MDC8Y2	2020	1,546
Dell Precision 5400 w/2 monitors 7KDC8Y2	2020	1,546
Dell Precision 5400 w/2 monitors HJDC8Y2	2020	1,546
Dell Precision 5400 w/2 monitors 6LDC8Y2	2020	1,546
Dell Precision 5400	2020	1,546
GE 10K BTU A/C - Purchasing Dept	2020	1,513
Latitude 7290 GZR6WT2	2020	1,510
Latitude 7290 6GL6WT2	2020	1,509
Latitude 7290 DDY6WT2	2020	1,509
Reg Pchse - 32 SR100	2020	1,504
Reg Pchse - (28) American 1813C	2020	1,484
Shell Cutter 6.25"	2020	1,477
Shell Cutter 6.25"	2020	1,477
Reg Pchse - (3) B34R	2020	1,473
Digital Ultrasonic Thickness Gauge	2020	1,456
Latitude 7290 1C26WT2	2020	1,396
Latitude 7290 1PM4WT2	2020	1,396
Latitude 7290 2XP5WT2	2020	1,396
Latitude 7290 38J5WT2	2020	1,396
Latitude 7290 4YW5WT2	2020	1,396
Latitude 7290 50X5WT2	2020	1,396
Latitude 7290 5855WT2	2020	1,396
Latitude 7290 6TM4WT2	2020	1,396
Latitude 7290 7HRGWT2	2020	1,396
Latitude 7290 80Q5WT2	2020	1,396
Latitude 7290 9TP5WT2	2020	1,396
Latitude 7290 HGCCJ5WT2	2020	1,396
Latitude 7290 CYB5WT2	2020	1,396
Latitude 7290 D3T4WT2	2020	1,396
Latitude 7290 FPM4WT2	2020	1,396
Latitude 7290 H5T4WT2	2020	1,396
Latitude 7290 22N4WT2	2020	1,396
Latitude 7290 2ZW5WT2	2020	1,396
Latitude 7290 G4T4WT2	2020	1,396
Latitude 7290 GHJ5WT2	2020	1,396
Latitude 7290 HGJ5WT2	2020	1,396
Latitude 7290 HYP5WT2	2020	1,396
Latitude 7290 H855WT2	2020	1,396
Latitude 7290 13T4WT2	2020	1,396
Latitude 7290 1F55WT2	2020	1,396
Latitude 7290 1RM4WT2	2020	1,396
Latitude 7290 5LJ5WT2	2020	1,396
Latitude 7290 8086WT2	2020	1,396
1-1/2T Transmission Jack	2020	1,339
Optiplex 7070 GJ67BZ2	2020	1,330
Optiplex 7070 GJ68BZ2	2020	1,330
Optiplex 7070 GJ69BZ2	2020	1,330

Description	Year Completed	Total
Optiplex 7070 GJ6DBZ2	2020	1,330
Optiplex 7070 GJ6FBZ2	2020	1,330
Optiplex 7070 GJ74BZ2	2020	1,330
Optiplex 7070 GJ6BBZ2	2020	1,330
Optiplex 7070 GJ6CBZ2	2020	1,330
Reg Pchse - (28) SR100	2020	1,316
Reg Pchse - (3) B34R	2020	1,281
Reg Pchse - (3) B34R	2020	1,281
Reg Pchse 24 - 1813C	2020	1,272
Tig Torch	2020	1,268
2d Combustible Gas Leak Detector	2020	1,265
Oxygen & Welding Cylinders	2020	1,241
HART JNG1200 2" Reloc	2020	1,223
Flange spreader for shutdown	2020	1,219
Hydraulic Lift 1000 lb	2020	1,219
Reg Pchse - (3) B34R	2020	1,218
Reg Pchse - (3) B34R	2020	1,218
Meter Kit 88-5/A Kit	2020	1,137
Reg Pchse - (24) SR100	2020	1,128
Reg Pchse - (20) American 1813C	2020	1,060
Reg Pchse 20- American 1813C	2020	1,060
Digital Video Inspection Scope	2020	1,049
Milwaukee Cordless Tool Kit 18V DC Voltage	2020	999
Angle Grinder	2020	953
Replace Men's 1st Flr Toilet	2020	952
Paper Sheet Tray	2020	938
Paper Sheet Tray @ SNG	2020	938
A/C Billing-Meter Reading office	2020	918
Cisco Phones, Routers, & Smartnet - cap int	2020	885
New shelving for copy machine	2020	864
tb16 w/240w adapter	2020	855
Reg Pchse - (2) B34R	2020	854
Reg Pchse - (2) B34R	2020	854
Reg Pchse - (2) B34R	2020	854
Reg Pchse - (2) B34R	2020	854
Reg Pchse - (2) B34R	2020	854
Reg Pchse - (16) American 1813C	2020	848
Angle Grinder: Atlas Copco LSV28	2020	847
Reg Pchse - (12) Invensys 143	2020	840
Reg Pchse - (12) Belgas P143	2020	840
Reg Pchse - (12) Belgas P143	2020	840
3/4" Composite Impact Gun	2020	817
Sit Stand Desk for Darlene Wynn	2020	815
Reg Pchse - (2) B34R	2020	812
Ingersllarnd 1" Impact Gun	2020	801
Reg Pchse - (16) 1813C	2020	800
Garage shop tools	2020	773
EAT B100MIC Type Manual	2020	645
(16) BTO 24" monitors P2419h & accessories	2020	639
Reg Pchse - (12) American 1813C	2020	636
Reg Pchse - (12) American 1813C	2020	636
Burling Instrument Temp Switch	2020	635
GPS mount and antenna cable	2020	634

Description	Year Completed	Total
Hilo Office - Desk Riser w/charger	2020	632
Impact Wrench	2020	625
Reg Pchse - (12) 1813C	2020	612
Reg Pchse - (12) 1813C	2020	612
Reg Pchse - (12) 1813C	2020	612
Cube Truck for trash & recycle	2020	602
Impact Wrench 3/4"	2020	579
Reg Pchse - (12) SR100	2020	576
Digital Multimeter, 1000V; Fluke 87-V	2020	504
Reg Pchse - (1) B34R	2020	491
Reg Pchse - (1) B34R	2020	427
Reg Pchse - (8) American 1813C	2020	424
Reg Pchse - 8 American 1813C	2020	424
Reg Pchse - (8) American 1813C	2020	424
Reg Pchse - 6 Belgas P143	2020	420
Reg Pchse - 6 Belgas P143	2020	420
Reg Pchse - (6) Belgas P143	2020	420
Reg Pchse - (6) Belgas P143	2020	420
Reg Pchse - (6) Belgas P143	2020	420
Reg Pchse - (6) Belgas P143	2020	420
Reg Pchse - (8) 1813C	2020	408
Reg Pchse - (8) 1813C	2020	408
Reg Pchse - (8) American 1813C	2020	408
Reg Pchse - (8) American 1813C	2020	408
Reg Pchse - (8) 1813C	2020	408
Reg Pchse - (8) 1813C	2020	400
Reg Pchse - (8) SR100	2020	384
Reg Pchse - (8) SR100	2020	384
Meter Pchse - (5) BK-250	2020	310
Reg Pchse - (4) 1813C	2020	204
Reg Pchse - 4 American 1813C	2020	204
Reg Pchse - (4) 1813C	2020	204
Reg Pchse - (4) 1813C	2020	204
Reg Pchse - (4) 1813C	2020	204
Reg Pchse - (4) American 1813C	2020	204
Reg Pchse - (4) American 1813C	2020	204
Reg Pchse - (4) 1813C	2020	200
Reg Pchse - (4) 1813C	2020	200
Reg Pchse - (4) 1813C	2020	200
Reg Pchse - 4 SR100	2020	192
Reg Pchse - (4) SR100	2020	192
Reg Pchse - (4) SR100	2020	192
Young St-Punahou&Isenberg	2021	1,192,210
Waikiki Regulator Station	2021	870,298
Bare Steel Repl Blkt	2021	438,113
Warebeya-Waipahu [Mains]	2021	299,294
2021 Kenworth T370; Veh# 4390	2021	214,437
New Bus Blkt C/I <\$5,000-Service	2021	197,702
U Main Rnwl >10', <\$15K	2021	178,497
New Bus Blkt C/I <\$5,000	2021	171,652
U Main Rnwl >10', <\$15K	2021	169,373
U Main Rnwl >10', <\$15K	2021	168,233
Waialeale Shopping Ctr-Lower Dvp	2021	155,269

Description	Year Completed	Total
T&D Mobile Data Upgrade	2021	146,151
New Bus Blkt C/I <\$5,000	2021	145,202
1904 Demin Water Tank Repair	2021	144,917
Non ERTs Meter Exchange	2021	135,726
TOPA Renovation	2021	134,207
01 WHB Refractory Repair	2021	124,555
U Main Rnwl >10', <\$15K	2021	121,847
U Main Rnwl >10', <\$15K	2021	121,573
New Bus Blkt C/I <\$5,000-Service	2021	116,374
Kamakee Electrical Upgrade	2021	114,182
U Main Rnwl >10', <\$15K	2021	110,363
New Bus Blkt Res<\$5,000-Service	2021	108,162
Bare Steel Repl Blkt	2021	107,084
U Main Rnwl >10', <\$15K	2021	106,053
U Main Rnwl >10', <\$15K	2021	99,408
New Bus Blkt C/I <\$5,000	2021	83,334
New Bus Blkt Res<\$5,000-Service	2021	82,812
Utility Holder Maintenance-TMP	2021	81,537
U Main Rnwl >10', <\$15K	2021	81,106
2020 Cathodic Protection Mains	2021	78,636
New Bus Blkt C/I <\$5,000	2021	78,032
Kamakee Cooling Tower	2021	77,212
U Blanket Main Renewal	2021	75,756
New Bus Blkt C/I <\$5,000-Service	2021	75,028
New Bus Blkt C/I <\$5,000	2021	74,667
New Bus Blkt Res<\$5,000-Service	2021	63,807
New Bus Blkt Res<\$5,000-Service	2021	56,503
8" 600# PCW-Seal Valve WC6	2021	55,600
2020 Cathodic Protection Mains	2021	55,042
Blkt Insulation Upgrade	2021	54,751
Pukoloa St Relocation	2021	54,018
Pig Launcher @ SNG	2021	51,139
SNG Pipeline Replacement	2021	50,856
3 - Vaporizer light pole for LNG transfer system	2021	49,948
U Svc Rnwl >10', <\$10K	2021	49,922
2021 Chevrolet Colorado Svc Trk; Veh#4404	2021	46,273
U Svc Rnwl >10', <\$10K	2021	43,012
U Svc Rnwl >10', <\$10K	2021	41,026
2021 Ford F150 super cab; Veh#4392	2021	39,017
New Bus Blkt C/I <\$5,000-Mtr Inst	2021	38,281
New Bus Blkt C/I <\$5,000-Mtr Inst	2021	37,147
2019 U Blkt Svc Rnwl	2021	33,518
2021 Ford F150 super cab; Veh#4393	2021	33,365
Main Renewal - Blanket	2021	31,941
U Svc Rnwl >10', <\$10K	2021	31,373
Young St-Punahou&Isenberg - Cap Int	2021	29,545
Meter Pchse - (472) BK250 W/ERTS	2021	29,264
2022 Toyota Prius Veh#4402	2021	29,122
SNG gate & wireless link replacement	2021	28,560
Repl Insulation Chiller Piping - Kamakee	2021	26,775
Warebeya-Waipahu [Svc]	2021	26,578
Nanakuli Village - Tank Install	2021	25,690
1507-02 Carb Soln Pump Repair	2021	25,391

Description	Year Completed	Total
Repair Warehse & Maint Shop Roof	2021	24,616
Meter Pchse (15) AL-1000 W/ERTS	2021	21,945
Bare Steel Repl Blkt	2021	21,706
86 - 24" Monitors P2419H	2021	20,891
Utility Sphere TMP	2021	20,783
Reg Meter-(24) AC630	2021	19,512
Meter Pchse - (24) AC-630 w/ERTS	2021	19,512
2020 Cathodic Protection Svc	2021	19,380
Towable Air Compressor; Sullair 185CFM	2021	19,000
Alii Drive Pipe Reloc	2021	16,008
Pukoloa St Relocation	2021	15,561
Meter Pchse - (19) AC-630 w/ERTS	2021	15,447
TOPA boardroom & Conf rm office chairs	2021	15,336
Blkt Multiple Property	2021	15,329
Meter Pchse - 36 American AL-425	2021	14,940
TOPA Sargent lockets	2021	14,883
Reg Pchse - (284) SR100	2021	13,348
9 - American AL 1000	2021	13,167
Meter Pchse (9) AL-1000 W/ERTS	2021	13,167
Meter Pchse (9) AL-1000 W/ERTS	2021	13,167
New Bus Blkt Res<\$5,000-Mtr Inst	2021	12,850
L-205 Control Valve Upgrade	2021	12,473
Meter Pchse - (36) AL-425 W/ERTS	2021	11,016
Waikiki Regulator Station - Cap Int	2021	10,920
2 - 2052 Size 2 DVC6200	2021	10,671
Meeting room: Herman Miller Sayl guest chars	2021	10,599
Crosby 1.5'-1500# X2.5 300# pressure valve	2021	10,264
Meter Pchse - (12) AC-630 w/ERTS	2021	9,756
(4) amber beacon lights for Mass Evacuation @ SNG	2021	9,634
New Bus Blkt U Res<\$5k-Mtr Ins	2021	8,871
Meter Pchse (6) AL-1000 W/ERTS	2021	8,778
Smart UPS for Pier 38	2021	8,396
Utility Holder TMP	2021	8,303
Reg Pchse 88 - SR100	2021	8,064
Reg Pchse - (150) American 1813C	2021	7,950
4- adjustable forks and wheels	2021	7,349
5 - American AL 1000	2021	7,315
Meter Pchse (5) AL-1000 W/ERTS	2021	7,315
Private office - Finance/Accounting	2021	7,116
midback mesh back task chairs (Sit on it Wit)	2021	6,812
4 - GNB 3-TCX-09G Flooded Classic Batery 6V	2021	6,305
Storefront windows - SNG	2021	6,300
Herman Miller Aeron office chairs	2021	6,253
T&D Mobile Data Upgrade - cap int	2021	6,094
Service Renewal - Blanket	2021	5,959
Meter Pchse (5) AL-1000 W/ERTS	2021	5,852
Warebeya-Waipahu [Install]	2021	5,815
Gate Laundry Svc	2021	5,691
Gr 1 Leak Simulation Training Area	2021	5,449
Reg Pchse - (42) Invensys 143	2021	4,998
Hart Communicator	2021	4,601
Utility Relief Valves	2021	4,498
Reg Pchse - (88) SR100	2021	4,136

Description	Year Completed	Total
Meter Pchse - (5) AC-630	2021	4,065
New Bus Blkt U Res<\$5k-Svc	2021	3,971
Meter Pchse - (64) BK250 W/ERTS	2021	3,968
Meter Pchse - 64 BK250 W/ERTS	2021	3,968
Meter Pchse - 64 BK250 W/ERTS	2021	3,968
Meter Pchse - 64 American BK-250	2021	3,968
Meter Pchse - 64 BK250 W/ERTS	2021	3,968
Electro fusion processor	2021	3,915
Kamakee Electrical Upgrade - Cap Int	2021	3,841
TOPA Renovation - Cap Int	2021	3,684
(3) 2021 APT M119 Digger; 1 1/4" X 6"	2021	3,613
Reg Pchse 68 - 1813C	2021	3,604
Reg Pchse - (72) SR100	2021	3,384
8- American AL-425 w/ERTS	2021	3,320
(3) 2021 APT M160 Breakers; 1 1/4" X 6"	2021	3,314
Finance meeting room cabinets	2021	3,308
Reg Pchse - (64) American 1813C	2021	3,200
Extended Warranty for HexMobile Tablets	2021	3,152
Kimball dock tables	2021	2,945
7 - Pressure Gauge 4.5"	2021	2,932
CashCo 16B & Cashco CB1	2021	2,917
Blkt Tool Set [wrenches & rivets]	2021	2,833
Reg Pchse - (56) SR100	2021	2,632
Reg Pcshe 56 - SR100	2021	2,632
Reg Pchse - (6) B34R	2021	2,556
Reg Pchse - (48) American 1813C	2021	2,544
Reg Pchse - 48 American 1813C	2021	2,544
Electronic pressure recorder	2021	2,529
Warabeya-Waipahu Capital Interest	2021	2,360
Kilauea Lighthouse Village-Svc	2021	2,254
Lab Equip - CMS Analyzer w/Data logger	2021	2,234
Finance meeting room table	2021	2,216
Combilhammer TE 60-ATC/AVR 120V	2021	2,125
Reg Pcshe 40- American 1813C	2021	2,120
Reg Pchse - 44 SR100	2021	2,068
Multimeters	2021	2,065
Reg Pchse - (4) B34R	2021	1,964
3 - CCS Adjustable Pressure Switch	2021	1,929
Pressure Transmitter S/N U1WCO1381	2021	1,870
Dell Latitude 7390 Laptops_17H65Y2 w/dock	2021	1,750
Dell Latitude 7390 Laptops_1BS65Y2 w/dock	2021	1,750
Dell Latitude 7390 Laptops_3BS65Y2 w/dock	2021	1,750
Dell Latitude 7390 Laptops_56H65Y2 w/dock	2021	1,750
Dell Latitude 7390 Laptops_5V6F5T2 w/dock	2021	1,750
Dell Latitude 7390 Laptops_3CS65Y2 w/dock	2021	1,750
Dell Latitude 7390 Laptops_43H65Y2 w/dock	2021	1,750
Dell Latitude 7390 Laptops_57S65Y2 w/dock	2021	1,750
Dell Latitude 7390 Laptops_59S65Y2 w/dock	2021	1,750
Dell Latitude 7390 Laptops_5PM65Y2 w/dock	2021	1,750
Dell Latitude 7390 Laptops_BRM65Y2 w/dock	2021	1,750
Dell Latitude 7390 Laptops_CSM65Y2 w/dock	2021	1,750
Dell Latitude 7390 Laptops_DQM65Y2 w/dock	2021	1,750
Dell Latitude 7390 Laptops_FR6F5Y2 w/dock	2021	1,750

Description	Year Completed	Total
Dell Latitude 7390 Laptops_FT6F5Y2 w/dock	2021	1,750
Dell Latitude 7390 Laptops_87S65Y2 w/dock	2021	1,750
Dell Latitude 7390 Laptops_B5S65Y2 w/dock	2021	1,750
Dell Latitude 7390 Laptops_8CH65Y2 w/dock	2021	1,750
Dell Latitude 7390 Laptops_BBS65Y2 w/dock	2021	1,750
Dell Latitude 7390 Laptops_C5H65Y2 w/dock	2021	1,750
Dell Latitude 7390 Laptops_F7S65Y2 w/dock	2021	1,750
Dell Latitude 7390 Laptops_J8H65Y2 w/dock	2021	1,750
Dell Latitude 7390 Laptops_JBS65Y2 w/dock	2021	1,750
Dell Latitude 7390 Laptops_JQM65Y2 w/dock	2021	1,750
Dell Latitude 7390 Laptops_JX965Y2 w/dock	2021	1,750
Dell Latitude 7390 Laptops_HR6F5Y2 w/dock	2021	1,750
Dell Latitude 7390 Laptops_G4S65Y2 w/dock	2021	1,750
New Bus Blkt C/I <\$5,000-Service	2021	1,707
TOPA lobby guest chairs	2021	1,707
Sierra Wireless Airlink RV50X	2021	1,701
2- Drum Heater	2021	1,672
Meter Pchse - 4 AL-425 W/ERTS	2021	1,660
Nanakuli Village - Mains	2021	1,653
(2) Hydraulic Cylinder Lap200	2021	1,648
Reg Pchse - (3) B34R	2021	1,473
Reg Pchse - 3 Sprague B34R	2021	1,473
Reg Pchse 12 - Invensys 143	2021	1,428
Dell Optiplex 7070_7Y0WG13	2021	1,367
Dell Optiplex 7070_7Y0XG13	2021	1,367
Dell Optiplex 7070_7Y1WG13	2021	1,367
Dell Optiplex 7070_7Y1YG13	2021	1,367
Dell Optiplex 7070_7Y1ZG13	2021	1,367
Dell Optiplex 7070_7Y21H13	2021	1,367
Dell Optiplex 7070_7Y22H13	2021	1,367
Dell Optiplex 7070_7Y20H13	2021	1,367
Dell Optiplex 7070_7Y01H13	2021	1,367
Dell Optiplex 7070_7Y02H13	2021	1,367
Dell Optiplex 7070_7Y0TG13	2021	1,367
Dell Optiplex 7070_7Y10H13	2021	1,367
Dell Optiplex 7070_7Y11H13	2021	1,367
Dell Optiplex 7070_7Y12H13	2021	1,367
Dell Optiplex 7070_7Y03H13	2021	1,367
Dell Optiplex 7070_7Y0VG13	2021	1,367
Meeting room: Herman Miller everywhere table	2021	1,320
Reg Pchse - 3 Sprague B34R	2021	1,278
Meter Pchse - (20) BK250 W/ERTS	2021	1,240
Meter Pchse 20-BK250 W/ERTS	2021	1,240
Rotork P/N 68C-0478838	2021	1,194
TOPA lobby bench	2021	1,189
battery & electrical system diagnostic analyzer	2021	1,136
New Bus Blkt C/I <\$5,000-Service	2021	1,133
20W Solar power kit for Hi Kai pressure monitoring station	2021	1,064
Reg Pchse - (20) American 1813C	2021	1,060
Reg Pchse - (20) American 1813C	2021	1,060
Reg Pchse - 15 Belgas P143	2021	1,050
12V Digital battery tester	2021	1,005
Height adj table for Alicia Moy	2021	999

Description	Year Completed	Total
Reg Pchse - (2) B34R	2021	982
Regulator, Cylinder CGA-580	2021	855
Reg Pchse - (16) American 1813C	2021	848
Reg Pchse - 16 American 1813C	2021	848
Reg Pcshe 16- American 1813C	2021	848
Compact Magnetic Drill Press 120V	2021	806
Hydraulic Squeezer Cost	2021	760
Reg Pchse - (16) SR100	2021	752
Reg Pchse 6 - Invensys 143	2021	714
4384 reverse sensor	2021	660
Pcard: Plexiglass signage	2021	640
Reg Pchse - (9) Belgas P143	2021	630
Hammer Demp SDS Max	2021	602
4G Modem for Scada pipeline monitoring system	2021	600
Reg Pchse - (12) SR100	2021	576
Reg Pchse - (12) SR100	2021	564
Reg Pchse - (12) SR100	2021	564
Reg Pchse 1 - B34R	2021	491
Reg Pchse - (1) B34R	2021	491
Reg Pchse - (1) B34R	2021	491
Reg Pchse - 1 Sprague B34R	2021	427
Reg Pchse - (8) American 1813C	2021	424
Reg Pchse - (6) Belgas P143	2021	420
Reg Pchse - (8) American 1813C	2021	400
Reg Pchse - (8) SR100	2021	384
New Bus Blkt Svc<\$5k	2021	384
Reg Pchse - (8) SR100	2021	376
Reg Pcshe 8 - SR100	2021	376
Reg Pchse - (4) 1813C	2021	200
Cayenta	2022	1,788,732
New Bus Blkt C/I <\$5,000	2022	321,892
New Bus Blkt C/I <\$5,000	2022	321,296
U Main Rnwl>10',<\$50k	2022	290,599
Bare Steel Repl Blkt	2022	278,514
U Main Rnwl>10',<\$50k	2022	276,976
U Main Rnwl>10',<\$50k	2022	254,115
U Main Rnwl>10',<\$50k	2022	237,043
Date St - Bare Steel Ln Rnwl	2022	227,895
Cayenta Labor Only [Not for PUC]	2022	215,581
U Main Rnwl>10',<\$50k	2022	199,364
U Main Rnwl>10',<\$50k	2022	169,705
U Main Rnwl >10', <\$15K	2022	167,267
U Main Rnwl >10', <\$15K	2022	166,654
New Bus Blkt C/I <\$5,000	2022	166,052
New Bus Blkt Res<\$5,000-Service	2022	151,969
New Bus Blkt C/I <\$5,000	2022	138,540
New Bus Blkt C/I <\$5,000	2022	137,027
New Bus Blkt C/I <\$5,000	2022	131,704
New Bus Blkt C/I <\$5,000	2022	129,476
New Bus Blkt Res<\$5 Mtr Install	2022	128,530
Bare Steel Repl Blkt	2022	125,072
Hawaiian Alliance Equip Co	2022	124,656
U Main Rnwl >10', <\$15K	2022	124,520

Description	Year Completed	Total
Nutanix Backup Installation	2022	109,932
New Bus Blkt Res<\$5,000-Service	2022	105,920
U Main Rnwl>10', <\$50k	2022	104,994
2022 Cathodic Protection-Mains	2022	104,774
Blkt Non ERTs Mtr Exchange	2022	103,848
New Bus Blkt C/I <\$5,000	2022	98,391
New Bus Blkt C/I <\$5,000-Mtr Inst	2022	96,227
Permanent 16" Kalihi Launcher	2022	92,744
C&C Beretania St Dig 60%	2022	90,835
Bare Steel Repl Blkt	2022	86,960
New Bus Blkt Res<\$5,000-Service	2022	86,933
2020 Cathodic Protection Mains	2022	81,691
Kohanaiki Phase 1-Svc	2022	81,227
U Svc Rnwl >10', <\$15K	2022	72,503
New Bus Blkt Res<\$5,000-Service	2022	69,417
Kohanaiki Phase 1-Mtr Install	2022	69,092
Mark II T-35 ANSI 300 Turbine Meter & Flow Computer	2022	66,668
Blkt Insulation Upgrade	2022	64,052
New Bus Blkt Res<\$5,000-Mtr Install	2022	59,182
New Bus Blkt C/I<\$5k-Mtr Inst	2022	59,181
U Svc Rnwl >10', <\$15K	2022	55,937
New Bus Blkt C/I <\$5,000	2022	55,069
U Svc Rnwl >10', <\$15K	2022	54,455
New Bus Blkt C/I<\$5k-Mtr Inst	2022	50,802
Nutanix Upgrade	2022	49,250
Utility Holder Maintenance - TMP	2022	48,659
Ainamalu @ Waikoloa-Svc	2022	47,343
New Bus Blkt Res<\$5,000-Service	2022	45,438
New Bus Blkt Res<\$5,000-Service	2022	42,457
New Bus Blkt Res<\$5,000-Mtr Inst	2022	41,230
Ainamalu @ Waikoloa-Cap Int	2022	40,709
2 Cisco Business Edition App 6000H	2022	39,087
New Bus Blkt Res<\$5k; Mtr Inst	2022	37,807
2022 Toyota Rav4; Veh#4419	2022	37,434
2022 Toyota Rav4; Veh#4420	2022	37,434
2022 Toyota Rav4; Veh#4421	2022	37,434
2022 Toyota Rav4; Veh#4422	2022	37,434
2022 Toyota Tacoma	2022	36,645
03 Superheater Vent Silencer	2022	36,459
U Svc Rnwl >10', <\$10K	2022	34,517
2022 Cathodic Protection-Mains	2022	34,416
02 Deaerator 03 BFW Pump	2022	32,124
Replace CO2 Chiller Compressor	2022	31,052
2021 Toyota Camry LE; Veh#4406	2022	28,295
U Svc Rnwl >10', <\$10K	2022	27,896
U Blkt Main Rnwl	2022	23,650
Kohanaiki Phase 1 - Cap Interest	2022	21,347
New Bus Blkt U Res<\$5k-Svc	2022	19,762
20 Dell Docs & 40 LED Monitors	2022	19,549
Meter Pchse - 24 American AC-630	2022	19,512
Kukui'ula Dev Parcel CC West 2	2022	18,778
U Blkt Main Rnwl	2022	18,404
Upgrade Maps&Recd Office [Install new dr & Build new wall]	2022	16,817

Description	Year Completed	Total
New Bus Blkt Res<\$5,000-Mtr Install	2022	15,073
Kamakee LED Lighting Upgrade Ph2	2022	15,071
Meter Pchse-36 American AL-425	2022	14,940
2022 Cathodic Protection-Svc	2022	14,061
New Bus Blkt U Res<\$5k-Mtr Ins	2022	13,858
Meter Pchse - 32 American AL-250	2022	13,280
Meter Pchse - 9 American AL-1000	2022	13,167
Meter Pchse (9) AL-1000 W/ERTS	2022	13,167
9 - American AL1000	2022	13,167
Meter Pchse (9) AL-1000 W/ERTS	2022	13,167
Lahaina Yard Maintenance	2022	12,233
192 - American BK-250	2022	11,904
Meter Pchse - 192 BK250 W/ERTS	2022	11,904
New Bus Blkt C/I<\$5k-Mtr Inst	2022	9,844
Blkt Multiple Property	2022	9,003
Reg Pchse - 19 Sprague B34R	2022	8,094
Meter Pchse - 128 BK250 W/ERTS	2022	7,936
Meter Pchse - 128 BK250 W/ERTS	2022	7,936
Meter Pchse - 128 BK250 W/ERTS	2022	7,936
Meter Pchse - 64 BK250 W/ERTS	2022	7,936
Ainamalu @ Waikoloa-Mtr & Install	2022	7,594
Milwaukee Power Tools	2022	7,348
Meter Pchse - 118 BK250 W/ERTS	2022	7,316
Meter Pchse - 5 AL-1000 W/ERTS	2022	7,315
2021 Cathodic Protection-Svc	2022	6,918
U Blkt Main Rnwl	2022	6,097
HD 20" Turbine Ventilator - GM warehouse roof	2022	5,503
U Svc Blkt Rnwl	2022	4,989
Reg Pchse - (104) SR100	2022	4,888
Reg Pchse - (104) SR100	2022	4,888
Blkt Svc Renewal	2022	4,575
Meter Pchse - 64 BK250 W/ERTS	2022	3,968
Meter Pchse - 64 American BK250	2022	3,968
Meter Pchse - 64 BK250 W/ERTS	2022	3,968
Meter Pchse - 64 BK250 W/ERTS	2022	3,968
64 - American BK-250	2022	3,968
Meter Pchse 64-BK250 W/ERTS	2022	3,968
Meter Pchse - 64 BK250 W/ERTS	2022	3,968
Meter Pchse - 64 BK250 W/ERTS	2022	3,968
Meter Pchse - 64 BK250 W/ERTS	2022	3,968
Meter Pchse - 64 BK250 W/ERTS	2022	3,968
Electric Pressure Gauge for Meter Shop	2022	3,951
Reg Pchse - (80) SR100	2022	3,760
Labeling Printer	2022	3,754
Split AC & Plasma Air PA604 air ionizer - dist conf rm	2022	3,546
Reg Pchse - (72) SR100	2022	3,456
Reg Pchse - (72) SR100	2022	3,384
Truck brake drum handler jack	2022	3,361
7 Solar streetlights @ Kamakee	2022	3,325
Reg Pchse - (68) SR100	2022	3,196
Plexiglass partition - HR Office	2022	3,094
Repair EHS Dept Office	2022	3,031
Meter Pchse - 48 American BK-250	2022	2,976

Description	Year Completed	Total
Reg Pchse - (6) B34R	2022	2,946
Meter Pchse - 2 AL-1000 W/ERTS	2022	2,926
Meter Pchse - 2 AL-1000 W/ERTS	2022	2,926
Reg Pchse - (60) SR100	2022	2,820
Reg Pchse - (60) SR100	2022	2,820
BG Coolant flush machine for Kuhela	2022	2,672
Date St - Bare Steel Ln Rnwl Cap Int	2022	2,636
Reg Pchse - (5) B34R	2022	2,455
Vacuum Leak Detector Kit	2022	2,242
Reg Pchse - 5 Sprague B34R	2022	2,130
Reg Pchse - 5 Sprague B34R	2022	2,130
Install pack lights under HR offices parking area to deter homeless from sleepi	2022	2,092
New Bus Blkt Svc Res<\$5k	2022	2,079
Reg Pchse - (40) 1813C	2022	2,000
Reg Pchse - (40) SR100	2022	1,880
Chain link fence @ Puuloa Yard	2022	1,827
Blkt Multiple Property - Mains	2022	1,625
DR900 Portable Calorimeter	2022	1,561
Dell Latitude 7300 BTX; DL96X33	2022	1,539
Dell Latitude 7300 BTX; DZK5X33	2022	1,539
Dell Latitude 7300 BTX; FW13X33	2022	1,539
Dell Latitude 7300 BTX; GXM5X33	2022	1,539
Dell Latitude 7300 BTX; HQJ5X33	2022	1,539
Dell Latitude 7300 BTX; 8WC2X33	2022	1,539
Dell Latitude 7300 BTX; 9Q62X33	2022	1,539
Dell Latitude 7300 BTX; BR62X33	2022	1,539
Dell Latitude 7300 BTX; CJJ5X33	2022	1,539
Dell Latitude 7300; 7NC2X33	2022	1,539
Reg Pchse 32 - SR100	2022	1,504
Reg Pchse - (3) American B34R	2022	1,473
Reg Pchse - (3) B34R	2022	1,473
Scissor Lift Cart 800 lb	2022	1,433
2021 Cathodic Protection-Mains	2022	1,421
Reg Pchse - (28) 1813C	2022	1,400
Pipe Purging Kit 1/2"-6"	2022	1,376
28 American SR100	2022	1,344
Reg Pchse - (19) Belgas P143	2022	1,330
28 American SR100	2022	1,316
Reg Pchse - 3 Sprague B34R	2022	1,278
Reg Pchse - 3 Sprague B34R	2022	1,278
Meter Pchse 4-AL-425 W/ERTS	2022	1,224
Portable Label Printer BMP71	2022	1,111
Reg Pchse - (20) 1813C	2022	1,000
10L Bead Bazooka & Milwaukee Torque Impact Wrench	2022	1,000
Meter Pchse - 16 BK250 W/ERTS	2022	992
Meter Pchse 16-BK-250 W/ERTS	2022	992
Reg Pchse - (2) B34R	2022	982
Reg Pcshe 2 - B34R	2022	982
Reg Pcshe 2 - B34R	2022	982
Reg Pchse 2-Sprague B34R	2022	982
2 - Sprague B34R	2022	982
Reg Pchse - (20) SR100	2022	960
Reg Pchse - 20 Amercan SR100	2022	940

Description	Year Completed	Total
Ainamalu @ Waikoloa-Cap Int	2022	882
Ratchet Pipe Threader 1/2"-2"	2022	880
Thermo Scientific pH Meter A211 for Lab	2022	867
2 - Sprague B34R	2022	852
Diesel fuel system leak test kit adaptor	2022	847
Reg Pchse - (12) Belgas P143	2022	840
Reg Pchse - (12) Belgas P143	2022	840
Reg Pchse - (16) 1813C	2022	800
Reg Pcshe 16 - SR100	2022	752
Kohanaiki Phase 1-Mtr	2022	707
Reg Pchse - (10) Belgas P143	2022	700
Reg Pchse - (10) Belgas P143	2022	700
Gas Torch Burner Cutter	2022	691
Reg Pchse - (12) American 1813C	2022	636
Instrumentation shop window AC	2022	627
Meter Pchse - (10) BK250	2022	620
Reg Pchse - (12) 1813C	2022	600
Hawaiian Alliance Equip Co - Cap Interest	2022	582
Reg Pcshe 12 - SR100	2022	564
Reg Pchse - (12) SR100	2022	564
Reg Pchse - (8) Belgas P143	2022	560
JEX-28 needle gun	2022	503
Desk file drawers	2022	502
Reg Pchse - (1) B34R	2022	491
Reg Pchse 1 - B34R	2022	491
Reg Pchse - 1 Amercan B34R	2022	491
Reg Pchse - 1 Amercan B34R	2022	491
Reg Pchse - (1) B34R	2022	491
Reg Pchse - (1) B34R	2022	491
Reg Pchse - (1) B34R	2022	491
Reg Pchse - (1) B34R	2022	491
Reg Pchse - 1 Sprague B34R	2022	426
Reg Pchse - 1 Sprague B34R	2022	426
Reg Pchse - 1 Sprague B34R	2022	426
Reg Pchse - (8) American 1813C	2022	424
Reg Pchse - (8) American 1813C	2022	424
Reg Pcshe 8- American 1813C	2022	424
8 - American 1813C	2022	424
Reg Pchse 6 - Belgas P143	2022	420
Reg Pchse-(6) P143	2022	420
Reg Pchse - (6) Belgas P143	2022	420
6 - Belgas P143	2022	420
8 - American 1813C	2022	400
Reg Pchse - (8) 1813C	2022	400
Reg Pcshe 8 - SR100	2022	376
Reg Pchse - 8 Amercan SR100	2022	376
Reg Pcshe 8 - SR100	2022	376
Reg Pchse - (4) Belgas P143	2022	280
Reg Pchse - (4) American 1813C	2022	212
Reg Pchse - (4) American 1813C	2022	212
Reg Pchse - (4) American 1813C	2022	212
Reg Pchse - 4 Amercan 1813C	2022	212
Reg Pchse - 4 Amercan 1813C	2022	212

Description	Year Completed	Total
Reg Pchse - (4) American 1813C	2022	212
Reg Pchse - (4) American 1813C	2022	212
Reg Pchse 4 - American 1813C	2022	212
Reg Pchse - (4) American 1813C	2022	212
Reg Pchse - (4) American 1813C	2022	212
Reg Pchse - (4) 1813C	2022	200
Reg Pchse - (4) 1813C	2022	200
4 American SR100	2022	192
Reg Pchse - (4) SR100	2022	192
2021 Cathodic Protection-Cap Interest	2022	96
Reg Pchse - (1) Belgas P143	2022	70
Reg Pchse - (1) Belgas P143	2022	70
CRM Replacement	2023	865,584
U Main Rnwl>10', <\$50k	2023	457,826
U Main Rnwl >10', <\$50K	2023	386,316
Blkt Non ERTs Mtr Exchange	2023	263,995
U Main Rnwl >10', <\$50K	2023	234,254
New Bus Blkt C/I <\$5,000	2023	229,473
2023 Cathodic Protection Main	2023	197,629
LNG Vapor Fence	2023	191,133
7890A-8890 GC Upgrde&Reconfig	2023	174,754
Kalanianole Widening	2023	173,265
Par HI refining tanker truck veh#4425	2023	150,199
Par HI refining tanker truck veh#4426	2023	150,199
U Main Rnwl >10', <\$50K	2023	148,402
Crane RT530E-2	2023	141,361
U Main Rnwl >10', <\$50K	2023	136,265
New Bus Blkt Res<\$5,000-Service	2023	130,925
New Bus Blkt C/I <\$5,000	2023	127,450
CO2 Absorbers EBV	2023	127,190
2023 Ford-350 Veh#4457	2023	117,380
2023 Ford-350 Veh#4458	2023	116,919
New Bus Blkt C/I <\$5,000	2023	116,685
2022 International CV	2023	114,861
Bare Steel Repl Blkt	2023	112,920
New Bus Blkt Res<\$5,000-Service	2023	111,057
Addition 1101 PSV Protection	2023	110,631
U Main Rnwl >10', <\$50K	2023	110,558
U Main Rnwl >10', <\$50K	2023	107,658
2021 Int'l CV Dump Veh #4428	2023	100,997
Multiple Property Blkt-Mains	2023	91,549
New Bus Blkt C/I <\$5,000	2023	91,191
New Bus Blkt C/I <\$5,000	2023	83,373
U Svc Rnwl >10', <\$15K	2023	80,396
2023 Chevrolet 2500 Body Truck	2023	79,175
Naptha Fuel Cannister Upgrade	2023	79,048
U Svc Rnwl >10', <\$15K	2023	78,028
Reboiler Level Gauge & Alarm on 1311-01 & 1311-03	2023	75,554
FCS Upgrade	2023	74,311
Plant Shutdown Valve Replacement	2023	74,044
2023 Chev silverado Veh#4448	2023	73,666
2022 Ford Transit Connect Van #4416 & #4417	2023	72,177
2022 Ford F250 Veh#4460	2023	70,427

Description	Year Completed	Total
(60) Surface Pro i7 tablet for Cayenta	2023	68,252
2022 Cathodic Protection-Mains	2023	67,422
2022 Ford F-250 XL Aluminum 8'6" flatbed Veh#4440	2023	65,791
Ko'ula Gas Ext-Robinson Svc	2023	64,551
U Main Rnwl>10', <\$50k	2023	64,448
Blkt PSV Replacement	2023	58,321
Multiple Property Blkt-Svc	2023	56,857
New Bus Blkt C/I<\$5k-Mtr Inst	2023	51,536
Blkt Piping Replacement	2023	50,526
Customer Exp Portal (CEP)	2023	48,054
Pier 38 Propane Vapor Upgrde	2023	47,909
Main Rnwl-Business District	2023	45,287
P116 to Main Vent Silencer	2023	44,118
(27) Dell latitude 7320 XCTO Base	2023	42,616
New Bus Blkt C/I <\$5,000	2023	40,797
New Bus Blkt C/I<\$5k-Mtr Inst	2023	39,457
New Bus Blkt Res<\$5,000-Mtr Install	2023	37,823
Meter Pchse - (21) AL-1000	2023	37,716
2022 Ford Transit Connect Van #4418	2023	37,290
New Bus Blkt Res<\$5,000-Service	2023	37,209
U Svc Rnwl >10', <\$15K	2023	34,764
Repl Insulation Chiller Piping	2023	34,565
Blkt Piping Replacement	2023	33,787
Blkt Insulation Upgrade	2023	29,729
Utility Sphere TMP	2023	28,560
Honouliuli New Gas Ln-Svc	2023	28,340
New Bus Blkt Res<\$5,000-Service	2023	28,210
dell laptop/desktop replacement	2023	27,618
New Bus Blkt Res<\$5,000-Service	2023	26,933
Meter Pchse-64 American AL-425	2023	26,560
10 - Dell Latitude 7530	2023	26,318
10 - Dell Latitude 7330 XCTO Base laptop	2023	26,112
Bare Steel Repl Blkt	2023	26,088
Cayenta - Cap int	2023	25,784
Blanket Instruments	2023	25,559
U Svc Rnwl >10', <\$15K	2023	23,638
New Bus Blkt U Res<\$5k-Mtr Ins	2023	23,124
U Svc Rnwl >10', <\$15K	2023	21,560
New Bus Blkt U Res<\$5k-Svc	2023	20,776
80 - Dell P2422H 23.8" Monitor	2023	20,105
Meter Pchse-48 American AL-425	2023	19,920
Kukuiula Dev-PH A&B-Ala Kukui	2023	19,776
Utility Holder TMP	2023	19,756
HART GNG 1321.1 8" Reloc	2023	19,286
10 - Dell latitude 7320 XCTO Base	2023	18,736
New Bus Blkt C/I<\$5k-Mtr Inst	2023	17,922
20 - Meter Pchse AC 630	2023	17,440
New Bus Blkt C/I<\$5k-Mtr Inst	2023	17,324
New Bus Blkt Res<\$5k; Mtr Inst	2023	17,185
10 - Dell Latitude 7320 XCTO	2023	17,139
16 - Optillex 5090	2023	16,930
10 - Dell Latitude 7520	2023	16,911
New Bus Blkt C/I<\$5k-Mtr Inst	2023	16,812

Description	Year Completed	Total
2023 Cathodic Protection-Svc	2023	16,633
Transmission Vault Dr Upgrade	2023	16,327
Meter Pchse - (20) AC 630 W/ERTS	2023	16,260
Meter Pchse - (9) AL-1000	2023	16,164
PV-0309 LP Steam-Deaerator	2023	15,992
25 - Sensit Instrument HXG-2D	2023	15,661
Par HI refining 1k gal dispenser tank	2023	15,584
Par HI refining 2k gal dispenser tank	2023	15,584
Laptop/Desktop replacement	2023	15,000
Meter Pchse-16 American AC-630	2023	13,952
Kamakee Warehse Awning Demolition	2023	13,800
(58) Dell P2419 24" monitor	2023	13,555
50 - Dell P2422H LED Monitor	2023	13,387
New Bus Blkt Res<\$5,000-Mtr Install	2023	13,338
Meter Pchse-32 American AL-425	2023	13,280
New Bus Blkt Res<\$5,000-Mtr Install	2023	12,926
5 - Dell Latitude 5540 XCTO Base	2023	12,915
7 - Meter Pchse AL-1000	2023	12,572
Kukuiula-Ph A&B-Ala Kukuiula	2023	12,422
4 Sensit G2 EX/CO	2023	12,410
U Main Rnwl>10',<\$50k	2023	12,037
Kamokila Blvd - Mtr Install	2023	11,870
GIS Printer Bizhub C300i	2023	11,549
HART GNG1294 4" RELOC	2023	11,123
2022 Cathodic Protection-Svc	2023	10,904
6 - American AL 1000	2023	10,776
5 - RFPDs	2023	10,066
Engineer Gas Guide Website	2023	9,817
Kalanianole Widening -Cpt' Int	2023	9,544
3 - Dell Mobile Precision 5560	2023	9,495
64 - Nordic Sensors magnetic mount	2023	9,340
39 - Dell Dock WD19S 90W	2023	9,086
7 sensit Instrument HXG-3	2023	9,034
(2) Gas-Rover Gas Detector	2023	9,012
Kamakee Security Fence	2023	8,950
Reg Pchse - 21 Sprague B34R	2023	8,946
Ko'ula Gas Ext-Robinson Mtr Install	2023	8,850
New Bus Blkt Res<\$5,000-Mtr Install	2023	8,420
(38) Dell docking station	2023	8,334
5 - Optiplex Plus 7010	2023	7,949
R1234 AC Service Machine	2023	7,658
3 - Dell Mobile Precision 5550	2023	7,490
FT-16C3XW-LEA-5 Turbine Flometer	2023	7,471
Transmission Vault Dr Upgrade	2023	7,446
3 - Dell Mobile Precision Workstation 3570	2023	7,298
Blkt PSV Replacement	2023	7,258
HART GNG1301 4" Reloc	2023	7,181
112 - Meter Pchse BK-250	2023	6,944
Daikin A/C System - SNG Kitchen	2023	6,764
(12) Mid-back office chairs	2023	6,606
9200 Switch to replace 3650	2023	6,552
24 - Dell WD19S Docking station	2023	6,277
2 - Dell Mobile Precision workstation 5560	2023	6,251

Description	Year Completed	Total
(4) Dell latitude 7320 XCTO Base	2023	6,102
Utility Holder TMP	2023	5,947
Utility Holder Maintenance - TMP	2023	5,464
Flood LED Light fixture for lab room	2023	5,034
(3) Dell latitude 7520	2023	4,912
(3) Dell latitude 7520	2023	4,869
Kuhela Security Camera for Garage	2023	4,725
Bare Steel Repl Blkt	2023	4,691
Reg Pchse - (88) 1813C	2023	4,664
Foxboro 43AP-PA22C/P Indicating controller	2023	4,585
(20)Dell P2419 24" monitor	2023	4,527
HART GNG 1279 1-1/4" Reloc	2023	4,400
SNG Door Lab Replacement	2023	4,287
ER Bus interface module EB401-10	2023	3,975
Meter Pchse - 64 BK250 W/ERTS	2023	3,968
Meter Pchse - 64 BK250 W/ERTS	2023	3,968
Meter Pchse - 64 BK250 W/ERTS	2023	3,968
Meter Pchse - 64 BK250 W/ERTS	2023	3,968
Meter Pchse - 64 BK250 W/ERTS	2023	3,968
Reg Pchse - (8) B34R	2023	3,928
Scanners for A/P & Accounting	2023	3,886
Palolo Valley Homes - Mains	2023	3,883
6 Sensit HXG 2D leak detect kit	2023	3,843
New Bus Blkt Svc Res<\$5k	2023	3,753
3 - Surface Pro 7	2023	3,606
Meter Pchse 2-AL1000 W/ERTS	2023	3,592
RNG Storage Cabinet	2023	3,587
Honouliuli New Gas Ln-Meter	2023	3,435
Dell latitude 7220 Rugged w/dock 18B1FD3	2023	3,279
Dell latitude 7220 Rugged w/dock 37B1FD3	2023	3,279
Dell latitude 7220 Rugged w/dock 38B1FD3	2023	3,279
Dell latitude 7220 Rugged w/dock 47B1FD3	2023	3,279
Dell latitude 7220 Rugged w/dock 58B1FD3	2023	3,279
Dell latitude 7220 Rugged w/dock 67B1FD3	2023	3,279
Dell latitude 7220 Rugged w/dock 78B1FD3	2023	3,279
Dell latitude 7220 Rugged w/dock 87B1FD3	2023	3,279
Dell latitude 7220 Rugged w/dock 98B1FD3	2023	3,279
Dell latitude 7220 Rugged w/dock B7B1FD3	2023	3,279
Dell latitude 7220 Rugged w/dock C7B1FD3	2023	3,279
Dell latitude 7220 Rugged w/dock C8B1FD3	2023	3,279
Dell latitude 7220 Rugged w/dock D8B1FD3	2023	3,279
Dell latitude 7220 Rugged w/dock F7B1FD3	2023	3,279
Dell latitude 7220 Rugged w/dock G6B1FD3	2023	3,279
Dell latitude 7220 Rugged w/dock H6B1FD3	2023	3,279
Dell latitude 7220 Rugged w/dock H7B1FD3	2023	3,279
Dell latitude 7220 Rugged w/dock J6B1FD3	2023	3,279
Dell latitude 7220 Rugged w/dock J7B1FD3	2023	3,279
2022 Cathodic Protection-Cap Int	2023	3,267
Meter Pchse - (4) AC 630 W/ERTS	2023	3,252
Reg Pchse - (68) SR100	2023	3,196
Security Locks for control room doors	2023	3,163
Reg Pchse - (43) P143	2023	3,010
6 - Reg Pchse B34R	2023	2,946

Description	Year Completed	Total
Reg Pcshe 6- American 1813C	2023	2,946
Keyboard/mouse combo & speakers	2023	2,923
U Svc Blkt Rnwl	2023	2,711
HART GNG 1293 5/8" Reloc	2023	2,707
Milwaukee Tool package	2023	2,500
40- American BK-250	2023	2,480
667 30i w/top mounted handwheel	2023	2,472
6 - SFP Transceiver Module	2023	2,467
Palolo Valley Homes - Svc	2023	2,352
CW1 Power supply retrofit	2023	2,205
Reg Pchse - (5) B34R	2023	2,130
Reg Pchse - (56) American 1813C	2023	2,128
Date St - Bare Steel Ln Renewal	2023	1,975
Reg Pcshe 4 - B34R	2023	1,964
Digital Multimeter 10A	2023	1,957
U Blkt Main Rnwl	2023	1,912
Reg Pchse - (40) SR100	2023	1,880
Reg Pchse - (40) SR100	2023	1,880
Combihammer TE 60-ATC	2023	1,875
Reg Pchse - (26) Belgas P143	2023	1,820
Power Monitor 1000	2023	1,794
PSI100 SIM/VZ Ranger	2023	1,756
Ranger 4DPak Modbus VZSIM3	2023	1,706
Reg Pchse - (36) SR100	2023	1,692
24 - Reg Pchse SR100	2023	1,680
1 - Dell Latitude 7320 BTX	2023	1,562
Reg Pchse - (40) 1813C	2023	1,520
Fireye Sentryp System Indicator 53SE2	2023	1,489
Ranger 4DPak Modbus VZSIM3	2023	1,489
Meter Pchse - 24 BK250 W/ERTS	2023	1,488
APC Smart UPS - SNG	2023	1,414
Reg Pchse - (27) 1813C	2023	1,350
Samsung 75" Class LED Q60 Series	2023	1,346
Keyboard/mouse combo	2023	1,315
Reg Pchse - 3 Sprague B34R	2023	1,278
Reg Pchse - (25) 1813C	2023	1,250
Reg Pchse - (24) 1813C	2023	1,200
Reg Pchse - (24) SR100	2023	1,128
20 ft extension ladder	2023	1,100
Reg Pchse - (20) 1813C	2023	1,060
Reg Pchse - (20) 1813C	2023	1,060
Reg Pchse - (20) 1813C	2023	1,000
Meter Pchse - 16 BK250 W/ERTS	2023	992
Reg Pchse - (2) B34R	2023	982
Reg Pchse - (2) B34R	2023	982
Reg Pchse - (14) Belgas P143	2023	980
Date St - Bare Steel Ln Rnwl	2023	962
Reg Pchse - (20) SR100	2023	940
TOPA Conference Room Phone	2023	878
Reg Pchse - (2) B34R	2023	852
Reg Pchse - 2 Sprague B34R	2023	852
Palolo Valley Homes - Mtr Install	2023	812
Reg Pcshe 16 - American 1813C	2023	800

Description	Year Completed	Total
Epson Thermal Printer TM-T88V	2023	777
Scanner for Lisa Gonzales	2023	777
Xerox B400DN Printer	2023	712
Diesel dispense hose & nozzle	2023	689
Reg Pcshe 1 - B34R	2023	671
Pump Dewatering Standard	2023	646
Date St - Bare Steel Ln Rnwl Cap Int	2023	570
Reg Pchse - (1) B34R	2023	491
Reg Pchse - 1 Sprague B34R	2023	426
Reg Pchse - (8) 1813C	2023	424
Reg Pcshe 6 - Belgas P143	2023	420
Reg Pcshe 6 - Belgas P143	2023	420
Nanakuli Village-Svc	2023	418
Reg Pcshe 8- American 1813C	2023	400
Reg Pcshe 8 - SR100	2023	376
Reg Pchse - (5) Belgas P143	2023	350
Reg Pchse - (7) 1813C	2023	350
CO2 Absorbers EBV - Cap Int	2023	337
Utility Holder Maintenance - TMP	2023	287
Reg Pcshe 4- American 1813C	2023	212
Reg Pchse - (4) 1813C	2023	200
Reg Pchse - 1 Sprague B34R	2023	190
Reg Pchse - (1) B34R	2023	190
1 - Reg Pchse B34R	2023	190
Reg Pchse - (4) American 1813C	2023	188
Reg Pcshe 4 - SR100	2023	188
Reg Pcshe 4 - SR100	2023	188
2 - Reg Pchse P143	2023	140
Utility Holder TMP - Cap Int	2023	110
U Blkt Main Rnwl	2023	100
Reg Pchse 1 - 1813C	2023	50
Waialeke Stream Bridge 16" Relocation	2024	1,025,003
U Main Rnwl >10', <\$50K	2024	463,269
Koa Ridge Devp Phase 1	2024	438,249
Kalaeloa (Kapolei) Business Park - Mains	2024	437,548
Bare Steel Repl Blkt	2024	432,171
01 Solution CUI Mitigation	2024	376,731
LNG Startup w/Clean Energy	2024	366,236
U Main Rnwl >10', <\$50K	2024	280,717
U Main Rnwl >10', <\$50K	2024	261,558
U Main Rnwl >10', <\$50K	2024	245,201
U Main Rnwl >10', <\$50K	2024	203,143
U Main Rnwl >10', <\$50K	2024	200,662
U Main Rnwl >10', <\$50K	2024	196,302
2023 International MV; Veh #4456	2024	181,006
La'I Loa Condo Devlp	2024	180,718
U Main Rnwl >10', <\$50K	2024	167,694
2024 Cathodic Protection Main	2024	162,106
U Main Rnwl >10', <\$50K	2024	150,692
Process Data Rpt Sys Upgrde	2024	150,514
02 Regen Reflux Drum Pip Repr	2024	146,134
U Main Rnwl >10', <\$50K	2024	139,588
Blkt Insulation Upgrade	2024	118,352

Description	Year Completed	Total
U Svc Rnwl >10', <\$15K	2024	115,945
New Bus Blkt C/I <\$5,000	2024	109,678
HALOITSM help desk tkt sys	2024	109,617
New Bus Blkt C/I <\$5,000	2024	107,928
U Svc Rnwl >10', <\$15K	2024	99,825
Blkt Non ERTs Mtr Exchange	2024	98,089
H2 Piping Repl @ 02 Benfield	2024	92,301
Naptha Feed Filter Upgrade	2024	91,525
New Bus Blkt Res<\$5,000-Service	2024	86,871
New Bus Blkt C/I <\$5,000	2024	81,685
Bare Steel Repl Blkt	2024	81,578
New Bus Blkt C/I <\$5,000	2024	80,647
New Bus Blkt C/I<\$5k-Mtr Inst	2024	74,367
New Bus Blkt Res<\$5,000-Service	2024	72,400
New Bus Blkt Res<\$5,000-Service	2024	72,230
U Svc Rnwl >10', <\$15K	2024	71,168
Blkt Non ERTs Mtr Exchange	2024	70,236
New Bus Blkt C/I <\$5,000	2024	68,668
U Main Rnwl >10', <\$50K	2024	67,747
Utility Holder Maintenance - TMP	2024	67,001
New Bus Blkt C/I <\$5,000	2024	65,700
2023 Cathodic Protection-Svc	2024	65,118
New Bus Blkt C/I <\$5,000	2024	62,954
New Bus Blkt U Res<\$5k-Svc	2024	58,682
U Svc Rnwl >10', <\$15K	2024	54,181
Maui Utility Riser Replacement	2024	52,717
1501-2 Heavy Naptha Pump	2024	51,489
U Svc Rnwl >10', <\$15K	2024	50,951
22 - Dell Latitude 7000 7350 13.3" notebook	2024	48,748
Nohea Phase 2 - Mains	2024	46,773
34 - Dell Optiplex 7000 7020 Plus Desktop	2024	44,949
Blkt Piping Replacement	2024	44,211
New Bus Blkt C/I<\$5k-Mtr Inst	2024	43,253
2024 Toyota Sienna Hybrid; Veh#4466	2024	43,153
New Bus Blkt Res<\$5,000-Service	2024	42,377
New Bus Blkt C/I<\$5k-Mtr Inst	2024	41,247
Blkt PSV Replacement	2024	40,685
New Bus Blkt U Res<\$5k-Mtr Ins	2024	39,931
U Svc Rnwl >10', <\$15K	2024	36,947
2024 Ford Maverick XL Hybrid; Veh#4468	2024	36,520
New Nirtogen Relief Valve	2024	35,404
New Bus Blkt Res<\$5,000-Service	2024	35,389
Engine and Turbo Charger for Veh#4360	2024	35,238
Repl warehouse forklift #4234	2024	35,002
2024 Ford Maverick XL Hybrid; Veh#4467	2024	34,777
(5) Leica GPS Antennas & Software	2024	34,627
15 - DTO Dell Precision Workstation 3591	2024	34,568
U Main Rnwl>10',<\$50k	2024	34,411
2 - Portable Nitrogen Pack	2024	34,079
HART GNG 1277 6" Reloc	2024	33,971
New Bus Blkt C/I<\$5k-Mtr Inst	2024	32,867
Meter Pchse-18 American AC-630	2024	32,328
18 - American AL-1000	2024	32,328

Description	Year Completed	Total
Koa Ridge Devp Phase 1 - Cap Interest	2024	30,704
2023 Ford Maverick Pickup; Veh#4464	2024	30,621
8 - Itron Mobile Radio	2024	30,560
New Bus Blkt Svc Res<\$5k	2024	30,555
Process Data Rpt Sys-Cap Int	2024	30,336
FQI-1003 Naptha Feed Meter	2024	29,778
2024 Cathodic Protection Main	2024	29,697
SNG Admin Doors Installation	2024	28,685
Waialeke Stream Bridge - Cap Int	2024	28,244
(2) 4"-8" Ft Hydraulic Squeeze Tool	2024	27,170
01 Solution CUI Mitigation - Cap Interest	2024	26,911
HART GNG1279.1 6" Reloc	2024	25,203
Quincy Dual Compressor	2024	24,953
Containment Improvement	2024	23,098
Utility Sphere TMP	2024	22,550
DTEX Odorant Detection System	2024	20,308
HART GNG 1310 1-1/4" Reloc	2024	20,040
New Bus Blkt Res-Svc&Mtr Inst	2024	20,026
New Bus Blkt Res<\$5,000-Service	2024	20,024
Blkt Instrument/Electrical	2024	19,844
Multiple Property Blkt-Svc	2024	19,577
02 Steam SH TE-1031&1032	2024	19,413
RNG Heat Exchanger	2024	19,393
Shop Tools	2024	19,287
Kalaeloa (Kapolei) Business Park - Cap Int	2024	19,119
7 - AEDs	2024	18,973
U Svc Rnwl >10', <\$15K	2024	18,758
New Bus Blkt C/I<\$5k-Mtr Inst	2024	18,618
10 - SNG Plant R7 Radios	2024	18,257
Meter Pchse - 16 AC630 W/ERTS	2024	17,920
2023 Cathodic Protection Main	2024	16,736
(6) 2"-6" Manual squeeze tool C400	2024	16,494
Meter Pchse-18 American AC-630	2024	16,164
Repl HV702 02 Carbonate Solution	2024	15,418
Kaneohe Vaporizer RH200	2024	15,159
Portable Water BFP Shutoff Val	2024	14,500
Rotary 2-post blue lift	2024	13,998
Bare Steel Repl Blkt	2024	13,766
26PB Dips Fushion Machine	2024	13,690
(4) ANSI 300 Flowgrid Regulator	2024	13,573
LV-0602 02 Scrubber outlet	2024	13,553
Meter Pchse 12-AC-630	2024	13,440
(2) 14PB Dips Fushion Machine	2024	13,381
New Bus Blkt Res<\$5,000-Service	2024	12,765
Multiple Property Blkt-Svc	2024	12,375
Hoshizaki Ice Machine @ Garage	2024	12,272
Shop Tools	2024	12,062
Nohea Phase 2 - Svc	2024	11,824
New Bus Blkt Res<\$5,000-Mtr Install	2024	11,810
Meter Pchse - 10 AC630 W/ERTS	2024	11,200
10 - American AC 630	2024	11,200
La'I Loa Condo Devlp - Cap Int	2024	10,719
Meter Pchse-12 American AC-630	2024	10,464

Description	Year Completed	Total
U Svc Blkt Rnwl	2024	10,403
Dist Vault Door Upgrade	2024	10,252
Pier 38 Propane Air Emergency Generator	2024	10,218
5 - SNG Plant Motorola R7 Radios	2024	9,479
5 - R7 Radio w/microphone	2024	9,411
(4) 9455 Pelican remote area lighting system	2024	9,279
Kamakee Warehse Awning Demolition	2024	8,824
20' Container #PHHU 200207-6	2024	8,377
Utility Holder TMP	2024	8,252
Meter Pchse - 128 BK250 W/ERTS	2024	7,936
(3) 9460 Pelican remote area lighting system	2024	7,586
LNG Flame Detector @ Pier 38	2024	7,206
Catalyst 9200L [Router for DR Fortress]	2024	6,552
Blkt Svc Renewal	2024	6,256
Dynasty Welder 210	2024	6,204
LNG Startup w/Clean Energy - Cap Int	2024	6,049
Purchase 2 Multiquip -Mikasa MTX60 Tampers	2024	5,856
Printer @ HR Dept	2024	5,846
Docking stations for laptop	2024	5,696
C&C Beretania-Griffith-McCully	2024	5,615
HART GNG1291 1-1/4" Reloc	2024	5,608
(2) Uplift Desk for Ryland and Shawn Tasaka	2024	5,550
LNG Startup w/Clean Energy - Cap Int	2024	5,440
Reg Pchse - (73) SR100	2024	5,256
Meter Pchse - 80 BK250 W/ERTS	2024	4,960
HART GNG1335 2" Relocation	2024	4,810
Milwaukee Power Tools	2024	4,766
2024 Apt M119 Digger Tools	2024	4,712
Kalanianole Widening -Cpt' Int	2024	4,707
New Bus Blkt U Res<\$5k-Mtr Ins	2024	4,490
Repl Mitsubishi Split AC HR breakroom MSZ-GL-15NA-U2	2024	4,391
Repl Mitsubishi Split AC Mailroom MSZ-GL-12NA-U2	2024	4,391
Air Compressor for Veh#4240	2024	4,324
Reg Pchse - (38) Belgas P143	2024	4,294
New electrofusion processor	2024	4,257
Airline/SCBA full face masks	2024	4,167
Reg Pchse - (56) SR100	2024	4,088
RNG VPN and Modem	2024	4,023
Meter Pchse 64-BK-250	2024	3,968
Meter Pchse - 64 BK250 W/ERTS	2024	3,968
Meter Pchse - 64 BK250 W/ERTS	2024	3,968
Replace Koolina Tank Rectifier	2024	3,966
Replace north PTZ camera	2024	3,933
Nitrogen Hose	2024	3,893
U Blkt Main Rnwl	2024	3,575
Meter Pchse 16-AC630 W/ERTS	2024	3,488
New Bus Blkt U Res<\$5k-Svc	2024	3,454
Disk Brake Rebuild Tool Kit	2024	3,424
(4) UHF Digital portable radio w/speaker	2024	3,408
Portable Fire Monitor	2024	3,275
washer dryer for dirty nomex	2024	3,150
Reg Pchse - (42) SR100	2024	3,066
Meter Pchse - 44 BK250 W/ERTS	2024	2,728

Description	Year Completed	Total
Reg Pchse - 24 P143	2024	2,712
(5) 9415 Pelican flashlights, 588 Lumen	2024	2,633
La'I Loa Condo Devlp - Cap Int	2024	2,620
MOC for Desulfurizer bleeder	2024	2,563
(1) 9460 Pelican remote area lighting system	2024	2,529
40- American BK-250	2024	2,480
U Svc Rnwl >10', <\$15K	2024	2,441
3150 HR Operator 24/7 Intensive use chair	2024	2,386
new milwaukee power tools for field crews - T&D, Pressure/Corrosion Control and	2024	2,383
Reg Pchse - (32) SR100	2024	2,336
Replacement AC for Mechanics office area	2024	2,273
Earth Ground Tester for Instrument shop	2024	2,261
Reg Pchse 28 - SR100	2024	2,044
Reg Pchse - (28) SR100	2024	2,044
Scan Tool- Bosch to replace shop OTC Encore	2024	2,000
Replacement AC for Calorimeter room	2024	1,891
Reg Pchse - (40) American 1813C	2024	1,880
Reg Pchse - 4 Sprague B34R	2024	1,852
1000 ft lb Torque wrench	2024	1,788
New Bus Blkt Res-Svc&Mtr Inst	2024	1,770
Reg Pchse - (24) SR100	2024	1,752
New Bus Blkt Res<\$5,000-Mtr Install	2024	1,682
CLSM for puka under driveway	2024	1,661
Water filled protective vehicle	2024	1,660
Nohea Phase 2-Cap Int	2024	1,650
Smart UPS	2024	1,619
Metrotech Transmitter	2024	1,571
Reg Pchse - (14) P143	2024	1,540
Reg Pchse - 3 Sprague B34R	2024	1,509
U Blkt Main Rnwl	2024	1,489
Meter Pchse - 62 BK250 W/ERTS	2024	1,488
forklift work platform replacement	2024	1,469
Addition 1101 PSV Protection Cap Int	2024	1,452
Meter Pchse - 23 BK250 W/ERTS	2024	1,426
Nitrogen/Argon Regulator	2024	1,414
Honda Generator	2024	1,366
7890A-8890 GC Upgrde&Reconfig	2024	1,300
7890A-8890 GC Upgrde&Reconfig - Cap Interest	2024	1,281
Fluke Process calibrator	2024	1,278
Meter Pchse - 20 BK250 W/ERTS	2024	1,240
Meter Pchse 20-BK-250	2024	1,240
Reg Pchse - (26) American 1813C	2024	1,222
Reg Pchse - (24) American 1813C	2024	1,128
Reg Pchse - (24) 1813C	2024	1,128
Storage container for emergency response	2024	1,126
New Bus Blkt Svc Res<\$5k	2024	1,097
Multi Meter	2024	1,050
Continental Tire Pressure monitor sensor scan tool and 12 sets of replacement ti	2024	1,042
Reg Pchse - (22) 1813C	2024	1,034
Bucket pump	2024	1,021
Reg Pchse - 2 Sprague B34R	2024	1,006
Reg Pchse - 2 Sprague B34R	2024	982
Reg Pchse - 5 Sprague B34R	2024	950

Description	Year Completed	Total
Welding Cart	2024	945
Kalaeloa (Kapolei) Business Park - Svc	2024	882
SCBA Tank	2024	879
Reg Pcshe 12 - SR100	2024	876
Jack Stands for piping	2024	875
New tools and batteries for field operations	2024	872
Nohea Phase 2 - Meter Install	2024	846
Replacement refrigerator for SNG plant kitchen	2024	838
Strata All Mesh Black Chair w/headrest - Dispatch	2024	819
Oxy Acetylene Torch kit	2024	781
Reg Pchse - 4 Sprague B34R	2024	760
Reg Pcshe 16- American 1813C	2024	752
mechanic wrenches	2024	727
Dry Erase Board @ Kamakee	2024	677
2019 Mobile Data Upgde-cap int	2024	674
Hydraulic Squeeze off tool	2024	653
Nohea Phase 2 - Mains	2024	636
Tape for Instrument Shop label maker	2024	602
LED TV for meeting and training	2024	597
Calibration pressure gauge	2024	596
Reg Pchse - (8) SR100	2024	584
Reg Pchse - 3 Sprague B34R	2024	570
Milwaukee power tool comb for Service Techs	2024	565
Reg Pchse - (5) Belgas P143	2024	565
maintenance office door closer, tool blanket	2024	535
Reg Pchse - (4) Belgas P143	2024	452
2023 Cathodic Protection-Svc	2024	410
Hawaiian Alliance Equip Co - Cap Interest	2024	397
Nohea Phase 2-Cap Int	2024	375
Reg Pcshe 3 - Belgas P143	2024	339
5- American BK-250	2024	310
Reg Pchse - (6) 1813C	2024	282
Reg Pchse - (6) 1813C	2024	282
C&C Beretania Griffith-Cap Int	2024	244
Nohea Phase 2 - Tank Install	2024	219
Reg Pchse - 1 Sprague B34R	2024	190
Reg Pcshe 4- American 1813C	2024	188
Reg Pcshe 4- American 1813C	2024	188
Reg Pcshe 4- American 1813C	2024	188
Reg Pchse - (4) American 1813C	2024	188
Reg Pchse - (2) SR100	2024	146
Reg Pchse 1 - Belgas P143	2024	113

CA-IR-2

Ref: Application, at 11.

- a. Please discuss whether Hawaii Gas considered other threshold amounts of capital expenditures that would be reasonable to replace the existing \$500,000 capital expenditure threshold of G.O. 9.
- b. If Hawaii Gas considered other thresholds, please state what those thresholds were and explain why Hawaii Gas did not select those amounts.

RESPONSE:

- a. **As discussed in Section V of the Application, the original intent of G.O. 9, section 2.3.f.2, as reflected in the 1965 document, is to review capital expenditures above \$500,000 or 10% of the total plant-in-service, whichever is less. As discussed in Section V(A) of the Application, at pages 11-12, the national Urban CPI-U Index of \$500,000 in 1965 dollars is equivalent to \$5,040,000 in 2024 dollars.² Similarly, specific to Hawaii, the Urban Hawaii CPI-U index³ of \$500,000 in 1965 dollars is equivalent to**

² See Exhibit 2 of the Application for the Consumer Price Index for All Urban Consumers (US City Average), obtained from U.S. Bureau of Labor Statistics, BLS Data Viewer on September 10, 2024.

³ Hawaii Gas notes that the Urban Hawaii CPI-U index is the same methodology that Hawaiian Electing Company, Inc. and Kauai Island Utility Cooperative cited in support of their respective applications that are currently the subject of Docket No. 2024-0054. Hawaii Gas notes that in 2018, the U.S. Bureau of Labor Statistics changed the index name from "Honolulu" to "Urban Hawaii". In 2018, the U.S. Bureau of Labor Statistics revised the CPI provided for each geographic region, introducing new geographic sample

\$4,975,000 in 2024 dollars.⁴ Hawaii Gas considered requesting a \$5,000,000 threshold in line with a full Urban Hawaii CPI-U index adjustment. However, as stated in Section V(A) of the Application, Hawaii Gas also believes that its instant request to increase the G.O.9 threshold to \$2,750,000 represents a reasonable approach that reduces the regulatory burden for small capital projects while still allowing the Commission to review capital projects that have a more significant impact on rate base. Said another way, this proposed threshold reduces the regulatory burden of reviewing smaller projects that do not represent a material impact on rate base, while maintaining the Commission and Consumer Advocate’s regulatory review of more material capital expenditure projects that have a more significant impact on Hawaii Gas’ plant-in-service.

Hawaii Gas also notes that it considered the fact that its plant-in-service in its most recent financial

areas consisting of large, medium, and small urban areas. For Hawaii, prior to 2018 the only index available was the Honolulu CPI-U which was based on pricing data samples from Honolulu. After the revision in 2018, only one index continues to be available for the State of Hawaii. Consequently, the U.S. Bureau of Labor Statistics changed the index name from “Honolulu” to “Urban Hawaii”, although the pricing data samples continue to cover only the Honolulu area.

⁴ See Exhibit 3 of the Application for the Consumer Price Index for All Urban Consumers (Urban Hawaii), obtained from U.S. Bureau of Labor Statistics, BLS Data Viewer on September 10, 2024.

statements is \$293,219,554 (see the Hawaii Gas annual report for the year ending December 31, 2023, filed with the Commission on July 29, 2024 (“2023 Annual Report”)), and the current \$500,000 threshold is projected to represent about 0.17% of plant-in-service.⁵ As shown in the table in the response to CA-IR-4, part a below, the proposed G.O. 9 threshold increase amount of \$2,750,000 represents 0.94% of Hawaii Gas’ plant-in-service and is more closely aligned with the original intent of G.O. 9 than the current threshold—although still significantly below the 10% amount provided for in section 2.3.f.2 of G.O. 9.

b. See the response to part a.

SPONSOR: Joanne Barradas; Diamond Giacomelli

⁵ Please note that in Section V(B) of the Application, Hawaii Gas inadvertently used the term “rate base” instead of the term “plant-in-service”. Please also note that in its Application, Hawaii Gas used a slightly higher current plant-in-service number. However, the plant-in-service in Hawaii Gas’ most recent financial statements is \$293,219,554 (see the 2023 Annual Report), and the current \$500,000 threshold is projected to represent about 0.17% of plant-in-service, which is just 0.01% higher than that projected in the Application.

Ref: Application.

- a. Please discuss whether any utility projects were delayed due to meeting the G.O. 9 filing requirements.
- b. Please provide a list of capital expenditure projects filed to meet the G.O. 9 requirements from 2015 to 2024 which includes the following:
 1. Project name and a brief description of how the Project was delayed due to meeting the filing requirements of G.O. 9, which includes the duration of the delay.
 2. The anticipated start date and end date.
 3. The actual start date and end date.
 4. The difference between the actual total cost of the project and the costs that would be incurred if the Project was not required to meet Commission approval in accordance with G.O. 9. Please include the calculation used to determine the difference.
 5. Whether the project was approved by the Commission in accordance with G.O. 9. Please include the docket number and decision and order number.
 6. The time and resources incurred, including but not limited to the administrative expenses to file applications for the projects.

RESPONSE:

- a. Refer to CA-IR-1, parts a and b for details on how the current filing threshold may cause delays for certain types of capital expenditure projects and the challenges Hawaii Gas faces with the regulatory G.O. 9 process for smaller projects that do not have a significant impact on Hawaii Gas' plant-in-service.
- b. Please see the table provided in the response to CA-IR-1, part c for the listed G.O. 9 project, docket number, whether approval was granted, and the relevant Commission decisions regarding approval. Please see Attachment CA-IR-3b, which provides a list of G.O. 9 projects from 2015 through 2024, their anticipated start and end dates, actual start and end dates, and the total project costs⁶ for the projects that have been completed.

See also the response to CA-IR-1, part b, which discusses the challenges Hawaii Gas faces with the regulatory G.O. 9 process for smaller projects that do not have a significant impact on Hawaii Gas' plant-in-service.

⁶ See Footnote 1.

The duration of delays resulting from these challenges is not readily quantifiable.

The difference between the actual total cost of the project and the costs that would be incurred if the project was not required to meet Commission approval in accordance with G.O. 9. cannot be easily calculated or determined. As discussed in the response to CA-IR-1, part c above, the time and resources incurred for filing and prosecuting these G.O. 9 dockets, including administrative expenses is not readily quantifiable since Hawaii Gas does not budget or track all internal staff time and resources spent on specific projects for regulatory processes. In addition to internal efforts, Hawaii Gas uses external consultants for regulatory services, depending on the nature and, complexity of the subject of the project, and the expertise of internal resources. The costs incurred for work performed internally and by external consultants can vary significantly depending on the nature of the subject project and the resulting docket proceeding. Since 2020, for applications triggering G.O. 9, paragraph 2.3.f.2., the average cost for services performed by external consultants, specifically outside

regulatory counsel, has been over \$55,500 per application⁷. Using this average cost per application, this results in about \$500,000 in additional costs for external legal counsel fees to prosecute the nine (9)⁸ anticipated applications that would not be required if the threshold were increased from \$500,000 to \$2.75 million. In addition, as mentioned above, some G.O. 9 dockets include external consultants to help with performing and providing a GHG assessment for the project. Since 2020, these G.O. 9 project GHG assessments on average have cost Hawaii Gas over \$36,000 per assessment. Increasing the threshold under G.O. 9, paragraph 2.3.f.2 will reduce the number of applications for smaller projects that do not have a significant impact on Hawaii Gas' plant-in-service, improving administrative efficiency and lowering costs.

⁷ Hawaii Gas notes that this average number includes outside counsel fees expended for Phase 1 of the Burner Management System (BMS) project (Docket No. 2022-0165), which is concluded but where Phase 2 is currently ongoing, and for the Honouliuli WWTP Expansion docket (Docket No. 2024-0209), which is currently still active but which is now awaiting a decision from the Commission. However, this does not include outside counsel fees currently expended for the Hunakai/Kahala Pipeline Replacement project (Docket No. 2024-0319), which is currently active and in the midst of discovery.

⁸ Hawaii Gas notes that since the Application was filed, one of the listed anticipated G.O. 9 project applications, Hunakai/Kahala Pipeline Replacement, was filed on September 30, 2024, and is currently active before the Commission in Docket No. 2024-0319. Hawaii Gas also notes that since the Application was filed, one of the anticipated projects, Renewable Hydrogen, decreased its estimated projected costs, and is now under the proposed threshold. Accordingly, the number of anticipated G.O. 9 applications that would not be required if the proposed \$2.75 million threshold is approved is still nine (9).

SPONSOR: Joanne Barradas; Diamond Giacomelli

Docket Number	Project Name	Start	End	Start	End	Actual Costs
2015-0341	SNG Land Purchase	3/1/2016	3/31/2016	3/31/2016	3/31/2016	\$ 3,172,000
2016-0340	Honouliuli WWTP Biogas	8/15/2016	2/1/2018	2/15/2017	12/31/2018	\$ 5,428,943
2018-0377	Relocate Pipelines for Leeward Bikeway Project (Waialeke Bridge)	1/1/2020	12/31/2020	7/16/2021	9/27/2024	\$ 1,025,003
2018-0420	Wai Kai Development					\$ -
2019-0084	Renewal of Bare Steel Pipeline (Young Street Pipeline Replacement)	11/15/2019		12/5/2019	3/31/2023	\$ 1,192,210
2019-0156	Installation of Waikiki Regulator Station	2/4/2019	12/31/2019	1/17/2020	5/31/2021	\$ 870,298
2021-0072	CIS Project	7/1/2021	10/31/2022	7/12/2021	12/31/2022	\$ 1,788,732
2022-0115	HART Pipeline Relocation	2/2/2023	12/31/2025	2/2/2023	12/31/2025	\$ 937,049
2022-0150	Kapolei (Kalaeloa) Business Park	1/4/2022	12/31/2022	9/22/2023	5/30/2024	\$ 437,548
2022-0165	SNG BMS (ongoing)	8/24/2022	6/30/2025		12/15/2025	ongoing project
2024-0209	Honouliuli Pipeline Extension (ongoing)	7/1/2024	6/30/2025		9/6/2025	ongoing project
2024-0319	Kahala Pipeline Replacement (ongoing)	1/1/2023	12/31/2023		11/1/2025	ongoing project

Ref: Application, at 12-13.

Section V B. of the Application compares Hawaii Gas' proposed G.O. 9 threshold amount of \$2,750,000 to Hawaii Gas' 2025 year-end rate base projection.

- a. Please discuss why Hawaii Gas finds it reasonable to compare the proposed threshold with the Company's 2025 year-end rate base projection instead of the company's plant in service amount.
- b. If not already provided, please provide the supporting documentation, calculations, and workpapers used to compare the proposed threshold with the Company's 2025 year-end rate base projection.
- c. Please provide a comparison of the current G.O. 9 threshold of \$500,000 and the proposed threshold of \$2,750,000 using the Company's plant in service in 1965 and the Company's plant in service in its most recent financial statements. If not already provided, please provide any supporting financial statements, documents or workpapers used to provide the comparison. If already provided, please point out the supporting financial statements, documents or workpapers used. In your response, please provide support and/or a

reference for Hawaii Gas' calculation of its rate base (\$13,629,874) in 1965.

RESPONSE:

- a. To clarify, Hawaii Gas notes that in Section V(B) of the Application, Hawaii Gas inadvertently used the term "rate base" instead of "plant-in-service". Hawaii Gas understands that when the Commission promulgated the G.O. 9 in 1965, \$500,000 represented about 3.7% of Hawaii Gas' total net plant in service of \$13,682,050. Hawaii Gas' total gross plant-in-service balance as of December 31, 1965 was \$18,810,352⁹, and the current \$500,000 threshold represents 2.7% of this total.

Hawaii Gas understands that G.O. 9's original intent is for the Commission to review any single project where the total expenditure amount equates to \$500,000 in 1965 dollars or 10% of Hawaii Gas' total plant-in-service, whichever is less. Hawaii Gas believes that the analysis of the G.O. 9 threshold should focus on the 10% of Hawaii Gas' total plant-in-service number as set forth in Paragraph 2.3.f.2 of G.O. 9. Hawaii Gas' plant-in-

⁹ See Attachment CA-IR-4, part a.

service in its most recent financial statements is \$293,219,554 (see the 2023 Annual Report), and the current \$500,000 threshold is projected to represent about 0.17% of plant-in-service. The proposed threshold amount of \$2,750,000 represents 0.94% of Hawaii Gas’ current plant-in-service and is more closely aligned with the original intent of G.O.9 than the current threshold—although still significantly below 10%.

A comparison of the G.O. 9 thresholds (both the current threshold of \$500,000 and the proposed threshold of \$2,750,000) to the current plant in service and 1965 plant in service is set forth as follows:

	<u>Percent of 1965 Total Plant-In-Service</u>	<u>Percent of Current Total Plant-In-Service</u>
Current \$500,000 Threshold	2.7% (\$500,000/\$18,810,352)	0.17% (\$500,000/\$293,219,554)
Proposed \$2,750,000 Threshold	0.15% (\$2,750,000/\$18,810,352)	0.94% (\$2,750,000/\$293,219,554)

- b. See the response to part a.
- c. See the response to part a. The table in the response to part a contains a comparison of the current and proposed thresholds as a percentage of Hawaii Gas’

1965 plant-in-service and the plant-in-service in its most recent financial statements.

SPONSOR: Brent Kobayashi; Diamond Giacomelli

HONOLULU GAS COMPANY, LIMITED
RECONCILIATION UTILITY PLANT ADDITIONS, ABANDONED DEPRECIATION
YEAR 1965

ACCT. NO.	DESCRIPTIONS	CAPITAL				RESERVE					
		BALANCE 12/31/64	ADDITIONS	RETIREMENTS	OTHERS DR (CR)	BALANCE 12/31/65	BALANCE 12/31/64	PROVISION	RETIREMENTS	OTHERS DR (CR)	BALANCE 12/31/65
	<u>INTANGIBLES</u>										
302	Franchises and Consents	51,131.34				51,131.34	-				
303	Misc. Intangible Plant-Patent Rights	16,816.18	x 58353			17,339.71	13,000.00				13,000.00
	<u>LAND AND LAND RIGHTS</u>										
304	Land & Land Rights-Manufactured Gas	65,677.69				65,677.69	-				-
360	" " " " -Local Storage Plant	-				-	-				-
374-1	" " " " -Distribution Plant	145,525.70	1150.00			146,675.70	-				-
	<u>PRODUCTION PLANT</u>										
305	Structures & Improvements	461,165.21	691820			468,083.41	140,134.31	853154			148,665.85
306	Boiler Plant Equipment	660,218.24	901790			669,336.14	232,851.23	1496568			247,816.91
312	Oil Gas Generating Equipment	2,062,893.47	16,06434	1250.00		2,077,707.81	804,341.89	49,028.62	1250.00		852,120.51
317	Purification Equipment	1,120,756.30	441780			1,125,174.10	390,533.18	2745191			417,985.09
318	Residual Refining Equipment	693,390.89	906258			702,453.47	272,485.30	1610771			288,593.01
319	Gas Mixing Equipment	-				-	-				-
320	Other Equipment	871,403.62	774987			879,153.49	262,696.39	2075342			283449.81
		5,869,827.73	5323069	1250.00		5921,808.42	2,103,042.30	136,838.88	1250.00		2238,631.18
318-1	Residual Refining Equipment-Benz. Recovery	641,498.59	18045			641,679.04	262,914.37	2724432			290,158.69
	<u>STORAGE PLANT</u>										
361	Structures & Improvements	-	5002.00			5002.00	-				-
362	Gas Holders	1,221,771.31	9498797			13,167,592.8	388,844.44	1714763			405,992.07
363	Other Equipment-Compressors for Gas Holders	-				-	-				-
	<u>DISTRIBUTION PLANT</u>										
374-2	Kona Street Paving	1,735.16				1,735.16	1,474.92	8676			1561.68
375-1	Structures & Improvements	396,835.71	3702186			4,338,575.7	83,849.01	600741			89,856.42
376-1	Mains	4,630,340.54	45241962	5603126		5,026,798.90	1,261,247.25	7423615	5603126		12,794,521.4
380-1	Services	2,613,915.80	31243144	5583291		2,876,514.23	84,597.89	5280110	5583291		81,566.08
381-1	Meters & Regulators in Service	930,326.67	1377519	64892	1950334	962,956.28	225,423.41	930327	64892		234,077.76
381-2	Meters In Stock	76,832.80	2498404	640275	2092672	74,487.37	3,414.84	76833	640275	273755	51797
381-3	Regulators In Stock	10,392.98	1583887	1340714	272750	10,102.21	15,524.41	10393	1340714	35013	2847749
382-1	Meters & Regulators Installations	406,981.42	3023630	730321		429,914.71	94,140.46	1627926	730321		103,116.51
		9,067,361.08	89277762	13962619	414588	9916366.63	1,738,623.37	15958621	13962619	308768	17,616,710.7

ACCT. NO.	DESCRIPTIONS	CAPITAL				RESERVE				
		BALANCE 12/31/64	ADDITIONS	RETIREMENTS	OTHERS DR (CR)	BALANCE 12/31/65	BALANCE 12/31/64	PROVISION RETIREMENTS	OTHERS DR (DR)	BALANCE 12/31/65
	Brought Forward	106,102.76	12,916.66	1,775.00		117,244.42	51,260.56	4,244.12	1,775.00	54,294.68
391-2	Office Equipment at Works-Mechanical	8,702.97	16,961.90		④ 44816	9,951.00	7,435.11	870.30	④ 268.92	8,036.49
391-4	" " " Dist.- "	9,915.66	14,248.00			11,340.46	8,728.36	991.57		971,993
391-6	" " " Office "	164,000.61	118,087.75	24,526.2		279,675.74	61,361.78	22,006.08	⑤ Solv. 64.00	80,979.24
392-1	Transportation Equipment	16,583.29				16,583.29	16,463.95	119.34		16,583.29
392-2	Transportation Equipment at Works	14,467.82	28,470			14,496.29	14,314.82	157.00		14,467.82
393	Stores Equipment-Inv. Handling Equipment	-				-	-			-
394-1	Shop Equipment at Works - General	53,010.47	16,085.20			54,618.99	18,797.89	1,590.31		20,388.20
394-2	" " " " - Fire Fighting	26,299.23	2,068.40			26,506.07	9,073.62	788.98		9,862.60
394-3	" " " Dist. - Garage	13,587.66	11,715.10			12,759.17	4,530.42	679.38		5,209.80
394-4	" " " " - Meter Shop	9,173.67	13,498.20			10,523.49	7,494.38	458.68		7,953.06
394-5	" " " Distribution	12,187.42	2,912.00			12,478.62	6,700.22	731.25		7,431.47
395-1	Laboratory Equipment at Works	49,879.40	18,249.50			51,704.35	42,887.48	3,990.35		46,877.83
396-1	Floating Equip. for Construction Work	104,226.46	42,607.70	310.00		108,177.23	27,896.48	6,253.59	310.00	33,840.07
		588,137.42	138,900.16	4537.62	< 44816	728,019.12	276,945.07	42,876.95	4537.62	315,644.48
			124,867.48							
	MISCELLANEOUS EQUIPMENT									
394-6	Hand Tools - Meter Shop	570.00				570.00	-			-
394-7	" " - Garage Dept.	1,223.33				1,223.33	-			-
394-8	" " - Dist. Dept.	12,214.93				12,214.93	-			-
394-9	" " - Works Dept.	7,583.19				7,583.19	-			-
397-1	Communication Equipment	28,975.52				28,975.52	27,956.72	101.80		28,975.52
398-1	Misc. Equipment-Home Economics Dept.	1,020.58				1,020.58	-			-
398-2	" " " " Sundry	1,419.69				1,419.69	-			-
		53,007.24				53,007.24	27,956.72	101.80		28,975.52
	TOTALS	17,753,018.14	4,404,851.48	125,413.81	< 772519	28,181,351.83	4,811,326.27	384,712.79	145,413.81	34,477,505.40

% 3.81

4c 381-2

① 1976798 Fr. 381-2 381.2 < 78732 > to 30306 H#E v
 < 103130 > to 381-2 380-1 < 346117 >
 1161407 Fr. 381-2 380-1 < 264587 > AMORTIZATION
 < 1084741 > to 381-2 380-2 < 48528 > AMORTIZATION
 ② < 1976798 > to 381-1 381.2 < 44816 > TRANSF to 347.06 v
 103130 Fr. 381-1
 < 131914 > to 380-0C v
 1257 Fr. 380-0C v

381-2

381-3

391-5

391-2

391-6

- ① < 273755 > SALV. CR.
- ② < 350197 > SALV. CR.
- ③ < 5007 > SALV. CR.
- < 56000 > DONATED to OCEAN SCHOOL
- ④ 26892 to HGE 34306
- ⑤ < 64007 > SALV. CR.

3447767

Ref: Application, at 8-9 and Hawaii Gas Five-Year Capital Expenditure Budget Forecast (2024-2028), filed on February 1, 2024, at 7-9.

In Section IV.C of the Application, Hawaii Gas lists the number of anticipated G.O. 9 applications that it would have to file in the next five years (from September 2024 to 2029).

- a. Please provide the anticipated date Hawaii Gas plans on filing the G.O.9 applications for the capital expenditure projects listed on pages 8 and 9 of the Application.
- b. Please reconcile the projects and costs listed on pages 8 and 9 of the Application and the utility projects in Hawaii Gas' Five-Year Capital Expenditure Budget Forecast, 2024 to 2028, and explain all differences.
- c. To the extent necessary, please update and reconcile the table on pages 8 and 9 of the Application to reflect the projects shown in the Five-Year Capital Expenditure Budget Forecast for 2024-2028.
- d. Please provide a by-project estimate of the time and resources, including but not limited to administrative expenses, that would be incurred for the projects planned over this time period with an estimated capital expenditure greater than \$.5 million, but less than \$2.75 million, assuming

that Hawaii Gas would be required to file G.O.9 applications for such projects.

RESPONSE:

- a. **Please see Attachment CA-IR-5a showing the anticipated date Hawaii Gas plans on filing the G.O. 9 applications for the capital expenditure projects listed on pages 8 and 9 of the Application. As noted in footnote 8 above, since the Application was filed, one of the anticipated G.O. 9 project applications, the Hunakai/Kahala Pipeline Replacement, was filed on September 30, 2024, and is currently pending before the Commission in Docket No. 2024-0319. Please also note that the anticipated filing dates for the G.O. 9 applications are based on the Five-Year Capital Expenditure Budget Forecast for 2025 to 2029, which represents a specific point-in-time projection of Hawaii Gas' capital expenditure forecast. As such, the anticipated filing dates for the G.O.9 applications are subject to change due to various factors, including changes to the anticipated construction schedules of the projects.**

- b. Hawaii Gas indicates that any discrepancies between its anticipated G.O. 9 application list in the Application and the Five-Year Capital Expenditure Budget Forecast for 2024 to 2028, submitted in early 2024, are due to the five-year forecast representing a specific point-in-time projection of Hawaii Gas' capital expenditure forecast. Hawaii Gas notes that its Five-Year Capital Expenditure Budget Forecast, 2025 to 2029 projection¹⁰, which will be filed on February 3, 2025 (one business day after this response), aligns with the projects and cost projections listed in Attachment CA-IR-5a.**
- c. See the response to part b above.**
- d. As stated in the response to CA-IR-3, part b above, a by-project estimate of the time and resources, including but not limited to administrative expenses, that would be incurred for these projects planned cannot be easily calculated or determined.**

As previously mentioned and discussed in more detail in the response to CA-IR-3, part b, since 2020, the average cost for services provided by external

¹⁰ Hawaii Gas notes that the Five-Year Capital Expenditure Budget Forecast, 2025 to 2029 projection is based on a budget approved in December 2024.

consultants, particularly outside regulatory counsel, has exceeded \$55,500 per G.O. 9 docket. The average cost of a G.O. 9 project GHG assessment since 2020 is over \$36,000 per assessment.

SPONSOR: Joanne Barradas; Diamond Giacomelli

Anticipated G.O. 9 Project	Anticipated G.O. 9 Filing Timeframe	Total Forecast (2025-2029) (rounded)	
HART Aiea Regulator Station	Q4 2025	\$ 2,300,000	Note that project fees are expected to be covered by HART
DCS Control Processors Upgrade	Q3 2025	\$ 750,000	
Keehi Lagoon Relocation	Q2 2025	\$ 500,000	
Wai Kai (Mains, Service, & Mtr Inst)	Q2 2025	\$ 2,000,000	
SNG New Control Building	Q4 2026	\$ 3,000,000	
SNG Plant Desulfurizer Replacement	Q1 2027	\$ 3,000,000	
RNG Landfill Gas	Q2 2026	\$ 6,000,000	
RNG Wastewater Treatment Plant	Q2 2026	\$ 5,000,000	
RNG Biocrops	Q1 2028	\$ 1,500,000	
SNG Plant New Fired Boiler	Q1 2028	\$ 2,000,000	
IT GP Replacement	Q3 2025	\$ 450,000	Note that this is the estimated utility portion
IT HRMS Replacement	Q3 2025	\$ 500,000	Note that this is the estimated utility portion
SNG System Upgrade	Q1 2026	\$ 8,000,000	
Renewable Hydrogen	Q4 2027	\$ 2,000,000	

CA-IR-6

Ref: Application.

- a. Please explain whether Hawaii Gas would agree to expand its Five-Year Capital Expenditure Budget Forecast to include the following details:
 1. Brief description of each project that is expected to cost \$500,000 or more for the upcoming years and each project that is expected to cost \$500,000 or more annually.
 2. Reason for the project.
 3. Explanation of how each project relates to the overall strategic objectives of Hawaii Gas as well as how various projects may be interrelated and/or positively or adversely affected by existing or other future projects.
 4. Estimated timeline for the project including start and completion dates for each project.

RESPONSE:

Hawaii Gas could expand its Five-Year Capital Expenditure Budget Forecast to include this additional information, but details for projects beyond the upcoming year are hard to predict, especially for items 3 and 4. Hawaii Gas would agree to expand its Five-Year Capital Expenditure Budget Forecast to

include items 1 and 2, but with the caveat that this reported information may be subject to change, especially for projects that are more than a year or so out. There are many variables that can affect a project forecast such as permitting and vendor quotes, which constantly change due to supply and inflation.

SPONSOR: Shawn Tasaka; Joanne Barradas

Ref: Application.

- a. In its Application, Hawaii Gas proposes to increase the dollar threshold governing capital expenditure applications and to exclude customer contributions from the calculation of the dollar threshold. Please clarify whether such exclusions would only be applicable when the customer or third-party contributions completely offsets the total project costs. In other words, if the total project costs are completely offset by contributions, applications would not be required for those projects.
- b. Please confirm whether the estimated costs in the chart provided on pages 8 and 9 of the Application listing the anticipated GO9 Project Applications from September 2024-2029 includes estimated customer or third-party contributions.
 1. To the extent the chart does not include estimated customer contributions, please provide an updated chart showing such estimated customer contributions.
- c. If it is Hawaii Gas' position that as long the net project cost is less than \$2.75 million no application is necessary, please explain why it would be reasonable to allow such a provision.

1. If not addressed in Hawaii Gas' response to part a. above, please discuss Hawaii Gas' expectations regarding its actions in the event that a project's net cost is expected to be less than \$2.75 million, but due to customer contribution being less than expected, the final net project cost is over \$2.75 million.
2. If not addressed in Hawaii Gas' response to part a. above, please discuss Hawaii Gas' expectations regarding its actions in the event that a project's net cost is expected to be less than \$2.75 million, but due to the actual project costs being underestimated and no corresponding increase in customer contribution, the final net project cost is over \$2.75 million.

RESPONSE:

- a. **Hawaii Gas' Application requests that the increase in threshold excludes customer and third-party contributions. In other words, if the total project costs are offset by contributions such that the project costs that are to be paid by Hawaii Gas and included in plant-in-service are less than the G.O. 9 threshold amount, a G.O. 9 application should not be required for said project. If Hawaii Gas were to submit a G.O. 9 application for a**

project wholly or partially funded by customer or other third-party contributions such that it fell below the G.O. 9 threshold, it would incur additional expenses and hardships (as set forth in the response to CA-IR-1, part b above) without meaningfully impacting Hawaii Gas' plant-in-service. These additional expenses should not be charged to ratepayers and expended by the utility when such projects have minimal impact on Hawaii Gas' plant-in-service.

Increasing the threshold for capital expenditures would account for inflation since 1965, get closer to 10% of Hawaii Gas' current plant-in-service, and reduce smaller capital expenditure projects requiring Commission review, allowing more focus on larger projects. For the same reasons, anticipated G.O. 9 projects that would fall below the proposed threshold because of customer or third-party contributions should also be excluded from the requirement to file a G.O. 9 application. This is especially true for projects that are completely (100%) covered by customer or third-party contributions (e.g., the anticipated Aiea Regulator Station HART Relocation project) since the entirety of project

costs will not be included in Hawaii Gas' rate base, and therefore, would not affect Hawaii Gas' ratepayers. Hawaii Gas offers that the hardships and expenses (as discussed in the response to CA-IR-1(b) above) that come with the filing and prosecution of a G.O. 9 application and are included in rates, do not warrant a prudency review of project costs that ultimately will not affect ratepayers. Excluding G.O. 9 projects below the proposed threshold due to customer or third-party contributions would ease administrative burdens for Hawaii Gas, the Commission, and the Consumer Advocate.

- b. The estimated costs in the chart provided on pages 8 and 9 of the Application (anticipated G.O. 9 Project Applications from September 2024 to 2029) are total project costs, i.e., they are not offset by potential customer contributions or third-party contributions. Within that list, only two anticipated projects would be or are potentially subject to customer contributions or third-party contributions: 1) the Aiea Regulator Station HART Relocation project, and 2) the Wai Kai at Ho'akalei Mains project. Hawaii Gas understands that the Aiea Regulator Station HART Relocation project would be

completely (100%) reimbursed by HART. For the Wai Kai at Ho'akalei Mains project, Hawaii Gas is not able to determine the estimated customer contribution at this time since the anticipated gas usage is uncertain at this time.

- c. Please see the response to part a above. With regard to Hawaii Gas' expectations regarding its actions in the event that a project's final net project cost is over \$2.75 million despite estimated customer or third-party contributions, Hawaii Gas expects that it would follow the current process in place for the current threshold. That is, as soon as it appears that the net project cost will exceed the threshold, Hawaii Gas would notify the Commission by filing a provisional G.O. 9 application to cover the contingency that the actual net cost of the project will exceed the threshold amount. In addition, the final project costs will be included for review in the next rate case.**

SPONSOR: Shawn Tasaka; Diamond Giacomelli

CERTIFICATE OF SERVICE

I hereby certify that on this date a copy of the foregoing document, together with this Certificate of Service, were duly served upon the following entities electronically to the email address shown below pursuant to HAR § 16-601-21(d), as modified by Order No. 38270 *Setting Forth Public Utilities Commission Emergency Filing and Service Procedures*, filed on March 14, 2022:

DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS Via E-Mail
DIVISION OF CONSUMER ADVOCACY
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DATED: Honolulu, Hawaii, January 31, 2025.

/s/ David Y. Nakashima
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Attorneys for Applicant
THE GAS COMPANY, LLC dba HAWAII GAS

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