LOCATION MAP

ISLAND OF KAUAI

FALKO PARTNERS, LLC
ENGINEERING REPORT FOR NEW POTABLE WATER SOURCES FOR KAHU'AINA PLANTATION
WAIPAKE, KILAUEA, KAUI, HAWAII

AUSTIN, TSUTSUMI & ASSOCIATES, INC.
ENGINEERS • SURVEYORS
HONOLULU • WAILUKU, HAWAII

EXHIBIT 1
WELL NO. 3 SITE PLAN

SCALE: 1" = 20'

FALKO PARTNERS, LLC
ENGINEERING REPORT FOR NEW POTABLE WATER SOURCES KAHU'AINA PLANTATION
WAIPAKE, KILAUEA, KAUAI, HAWAII

ELECTRICAL EQUIPMENT

WATERLINE

Elec. Well No. 3

Type CPI D.I.

In. +183.50

STA. 0+00

Elec. Waterline

STA. 5+00 D.L.

STA. 1+00 D.L.

Headwall

In. =283.50

WELL NO. 3 SITE PLAN

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APPROXIMATE SCALE: 1" = 1000'

TAX MAP

FALKO PARTNERS, LLC
ENGINEERING REPORT FOR NEW POTABLE WATER SOURCES FOR KAHU'AINA PLANTATION
WAIPAKE, KILAUEA, KAUAI, HAWAII

APPROXIMATE SCALE: 1" = 1000'

TAX MAP
CONCRETE PAD

TOP OF PAD ELEV. = 289.9
GROUND ELEV. = 288.98
(299.31)¹

6" I.D., 1/4" THICK STEEL SOLID CASING

13" DIA. WELL BORE

3" CEMENT GROUTED ANNULUS

BOTTOM OF GROUT
ELEV. = (-)0.7 MSL

WATER LEVEL
ELEV. = 4.74 MSL

TOP OF SCREENED CASING
ELEV. = (-)100.7 MSL

BOTTOM OF SCREENED CASING
ELEV. = (-)180.7 MSL

BOTTOM OF WELL
ELEV. = (-)185.7 MSL

NOTES:
¹ORIGINAL GROUND SURFACE, PER WELL COMPLETION REPORT.
²MODIFIED DEPTH BASED ON FINISHED GRADE.
³DEPTH BASED ON ORIGINAL GROUND SURFACE, PER WELL COMPLETION REPORT.
4' X 4' X 4'
CONCRETE PAD

TOP OF PAD ELEV. = 289.7
GROUND ELEV. = 288.74
(291.9)¹

6" I.D., 1/4" THICK
STEEL SOLID CASING

13" DIA. WELL BORE

3" CEMENT
GROUTED ANNULUS

BOTTOM OF GROUT
ELEV. = 26.9 MSL

WATER LEVEL
ELEV. = 4.7 MSL

TOP OF PERFOATED CASING
ELEV. = 11.9 MSL

BOTTOM OF PERFORATED CASING
ELEV. = (-)68.1 MSL

BOTTOM OF WELL
ELEV. = (-)148.1 MSL

NOTES:
¹ORIGINAL GROUND SURFACE, PER WELL COMPLETION REPORT.
²MODIFIED DEPTH BASED ON FINISHED GRADE.
³DEPTH BASED ON ORIGINAL GROUND SURFACE, PER WELL COMPLETION REPORT.
CONCRETE PAD

TOP OF PAD ELEV. = 289.9
GROUND ELEV. = 289.57

6" I.D., 1/4" THICK
STEEL SOLID CASING

13" DIA. WELL BORE

3" CEMENT
GROUTED ANNULUS

BOTTOM OF GROUT
ELEV. = 34.57 MSL

WATER LEVEL
ELEV. = 4.64 MSL

TOP OF PERFORATED CASING
ELEV. = (-)30.43 MSL

BOTTOM OF PERFORATED CASING
BOTTOM OF WELL
ELEV. = (-)110.43 MSL

TOTAL DEPTH OF WELL
320'

SOLID CASING

255'
CEMENT GROUTED

OPEN HOLE

6" I.D., .278" THICK PERFORATED STEEL CASING

6" I.D., 1/4" THICK STEEL SOLID CASING
REFERENCE: DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

NOTE: MAP REVISED BY ATA TO REFLECT MOST RECENT WELL INFORMATION.

APPROXIMATE SCALE: 1" = 1000'

MAP OF EXISTING WELLS
LEGEND

- PROPERTIES WITH INSTALLED SEPTIC TANKS
- PROPERTIES WITH PLANS FOR SEPTIC TANKS, NOT YET APPROVED FOR FINAL USE.
- PREVIOUSLY CULTIVATED SUGAR CANE
- EXISTING AND PROPOSED NURSERY
- EXISTING PASTURE

SCALE: 1" = 1000'

REF: NATIONAL GEOGRAPHIC HAWAII SEAMLESS USGS TOPOGRAPHIC MAPS ON CD ROM, ANAHOLA HI, 1996