



City and County of
HONOLULU, HAWAII



Department of Transportation Services

Tantalus Drive and Round Top Drive Right of Way Assessment Project

BOUNDARY STUDY REPORT



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Prepared by



ControlPoint Surveying, Inc.

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SECTION 1

SCOPE OF WORK

The project scope of work is a study of a corridor along Tantalus Drive and Round Top Drive in which to establish a road right-of-way. This study includes installation of a control network, a topographic survey of an approximately 75 feet wide corridor centered on the existing A.C. road pavement, and a boundary study of the properties adjacent to the roadway.

Tantalus and Round Top Drives were built on public lands between 1892 and 1917 by the government. Legislation in the 1890's allowed citizens to acquire residential property on Tantalus and in 1891 H.W. Schmidt received a Royal Patent (Grant 3535) for 21 acres of land on Tantalus. His deed contained a 40-ft. right-of-way provision for a public road and what started as a path from Punchbowl for workers carrying building material became a carriage road, Tantalus Drive, completed in 1901 to 1902.

Construction of Round Top Drive to connect to Tantalus Drive began at Makiki Heights in 1913 and was completed in 1917. The Tantalus – Round Top Road was first paved in 1937. The only substantial improvement since was in 1953-54 when low curbside retaining walls and roadside drainage culverts were built.

In 1957 the Tantalus – Round Top area was zoned as a Conservation District with conditional residential use. The ownership of the road remained with the State of Hawaii until 1993, when title was transferred to the City and County of Honolulu in name and tax map only, since a metes and bounds survey did not exist.

Presently, Tantalus has about 200 homes on lands that were mostly acquired as Grants of large parcels to prominent land owners that were later subdivided and sold. The boundary study of these lands began with the research of record boundaries and retracement ties provided by original and previous surveys and descriptions. This information was interpreted and compiled into record property lines and then translated into coordinates for the field investigation.

A field survey was then performed to locate existing monuments, property corners and evidence of occupation such as walls or fences. The property pins found ranged from less than a foot to as much as 13 feet different from the record information. The field measurements were reduced and compared to the record. Monuments called for and found in a retracement of original surveys, were held for the local boundaries whenever possible.

Much of Tantalus – Round Top Road was improved with a A.C. pavement overlay shortly after the initial field survey, which destroyed many of the control stations that had been set. In the years that followed, intermediate control stations were installed between the remaining control stations in an attempt to restore the control network. However, subsequent control surveys indicated that the remaining control stations may have been disturbed or have not been stable over time. It became apparent that in order to reestablish the control network, all of the controls would need to be surveyed again. The effort to reestablish the control network was stopped in December of 2014.

SECTION 2
FIELD SURVEY

The control survey began and ended at Government Survey Triangulation Station "PUNCHBOWL RESET" holding directions from the same. Over (170) control stations were set at line-of-sight intervals along Tantalus Drive and Round Top Drive. To establish permanent marks, (24) of the stations set were brass disks in concrete. The observed traverse network was adjusted by compass rule. Copies of the final control station coordinate list referred to "PUNCHBOWL RESET", and a traverse map are included in the appendices.

A differential level run was also performed on the control stations to establish elevations for the topographic survey of the 75-ft. wide A.C. roadway corridor. All elevations are referred to Bench Mark "H 2" a Coast & Geodetic Survey disk set in the top of a concrete post on the grounds of the Central Union Church near the corner of the intersection of South Beretania Street and Punahou Street, Elevation = 31.53 feet, Mean Sea Level.

The adjusted traverse network was used to recover and locate existing monuments and boundary corners. These located points were compared with their compiled record position. Monuments and boundary corners recovered from a retracement of the original surveys were held for the local boundaries whenever possible and are presented in the exhibits of the next section.

Further field surveys were conducted in the following years in an attempt to reestablish the control network that had been largely destroyed by pavement overlay and other maintenance activities. Field crews began installing replacement control points and surveying between the new and previous points. Measurements indicated some of the remaining controls were not stable and the entire control network would need to be surveyed again in order to establish a new control network. The effort to reestablish a control network and the field surveys stopped at the end of 2014.

SECTION 3

ANALYSIS OF FIELD AND RECORDED DATA

The Tantalus-Round Top road right-of-way assessment project is about 9 miles long and begins about half way up the Kewalo Residence Lots along Tantalus Drive. The road climbs along Kalawahine Ridge between Pauoa and Makiki Valleys and then descends along Round Top Drive on the ridge linking Puu Ohia (Mount Tantalus), Puu Kakea (Sugarloaf) and Puu Ualakaa (Round Top); then past the recent landslide area to the end of the Maunalaha Homesites.

Many of the subdivisions that exist along the road are not contiguous and stand alone. Therefore an analysis of the boundaries of these subdivisions should be treated separately and are presented as such in the following exhibits:

EXHIBIT A-1 - KEY MAP

This exhibit shows a key map of the exhibits on an overall view of the Tantalus-Round Top road and the surrounding areas. The project road is shown in red. Also shown are the primary control stations for the boundaries within the project area.

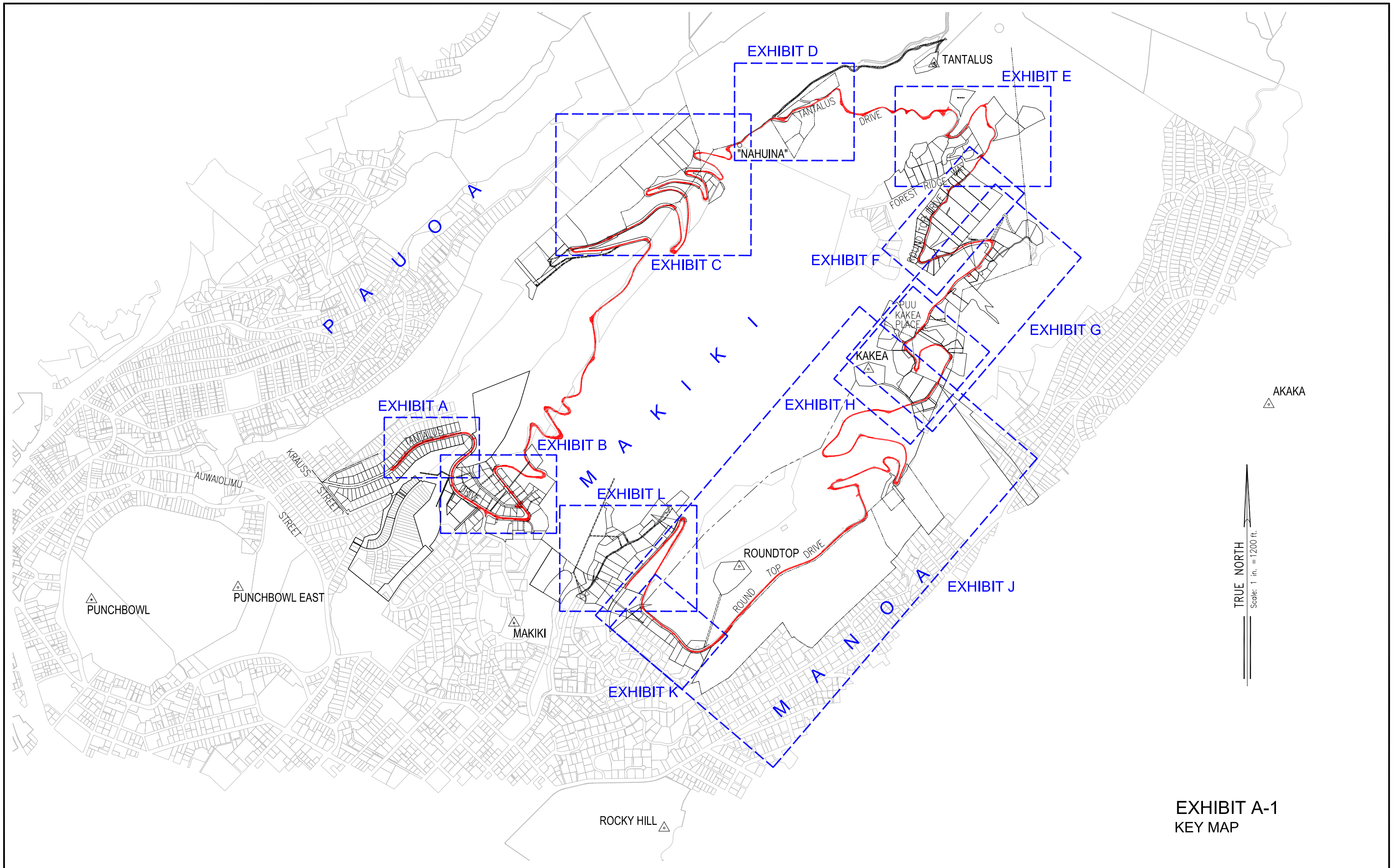


EXHIBIT A-1
KEY MAP

EXHIBIT A - KEWALO RESIDENCE LOTS

TMK: 2-5-22 & 2-4-39 Kewalo Residence Lots

Exhibit A shows Tantalus Drive through the northeastern portion of the Kewalo Residence Lots, the record boundaries of which are from Plat 22.4-H.H.dated Sept.-Dec. 1939.

A City and County Street Survey Monument at the point of curvature was found and adopted. A nearby street monument checked to 0.05' of record location and the property pins found in this subdivision are about 1 to 4 inches from their record location.

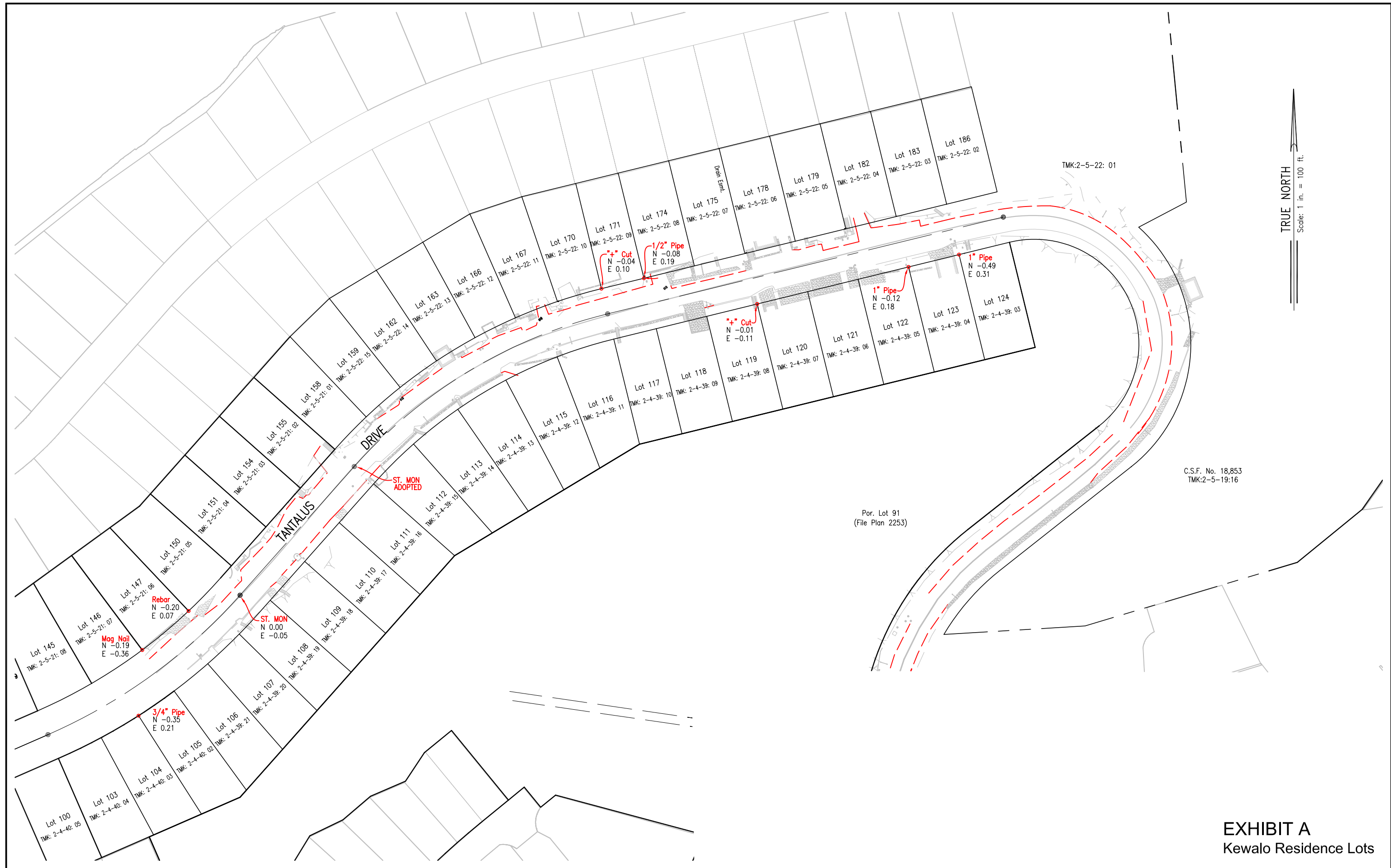


EXHIBIT A
Kewalo Residence Lots

EXHIBIT B – MAKIKI FOREST RIDGE LOTS

TMK: 2-5-23 Makiki Forest Ridge Lots
TMK: 2-4-34 Kalawahine Slope Lots
TMK: 2-4-35 & 2-5-09 Makiki Heights Lots

Exhibit B shows Tantalus Drive through CSF No. 18,853 on the northeast and File Plan 2253 Kalawahine Streamside Subdivision dated July 22, 1999 on the southwest, then the Makiki Forest Ridge Lots, the boundaries of which are from HTS Plat 2112-B dated September 1950.

Tantalus Drive is also adjacent to the Kalawahine Slope Lots and the Makiki Heights Lots the boundaries of which have been compiled from written descriptions.

A City and County Street Survey Monument along Aaliamanu Place was found and adopted. A nearby street monument checked to 0.05' of record location and the property pins found in these subdivisions are about 1 to 6 inches from their record location.

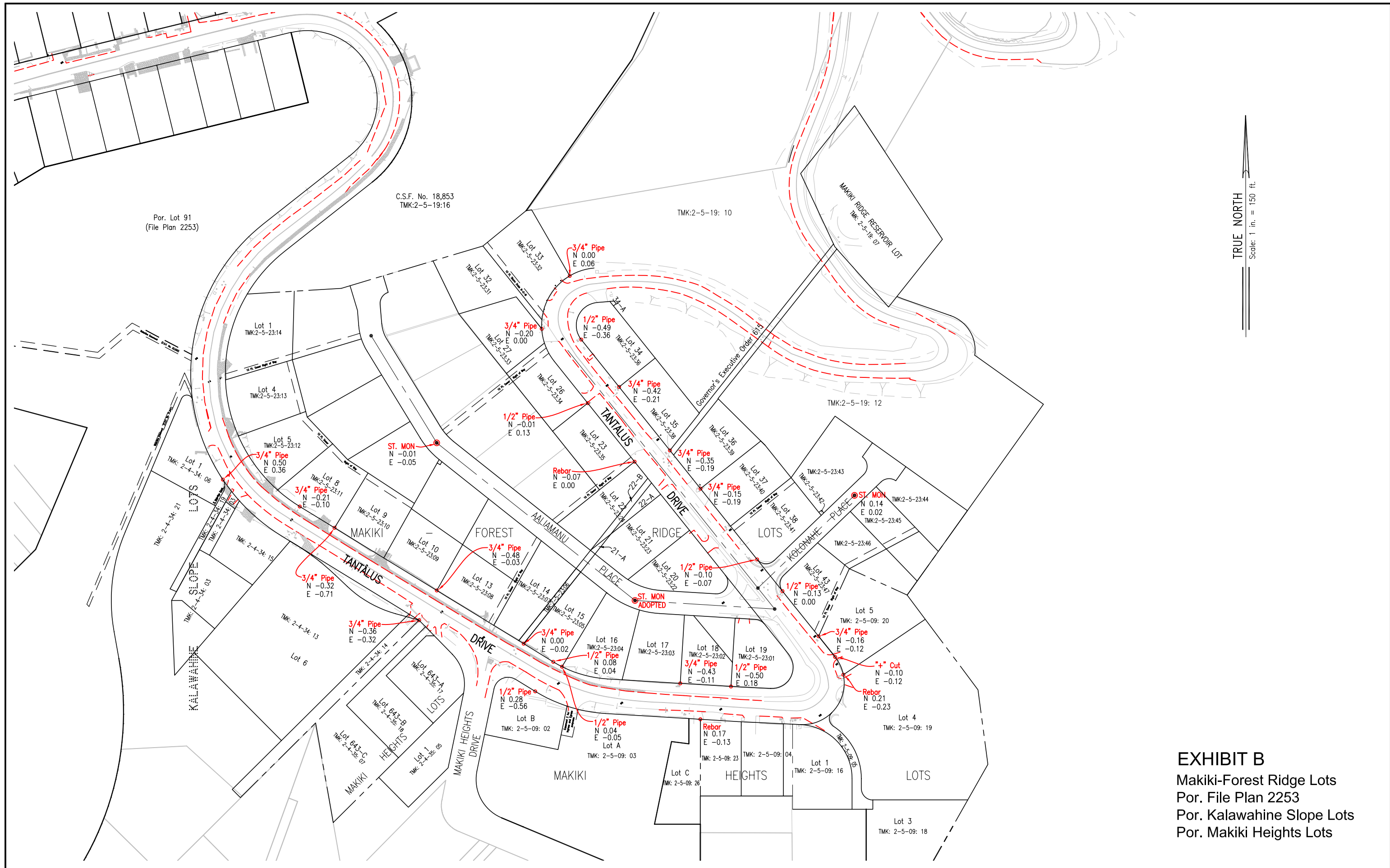


EXHIBIT B
 Makiki-Forest Ridge Lots
 Por. File Plan 2253
 Por. Kalawahine Slope Lots
 Por. Makiki Heights Lots

EXHIBIT C – LAND COURT APPLICATION 1375

TMK: 2-5-11 Land Court Application 1375
TMK: 2-5-12 Land Court Application 1106

Exhibit C shows Tantalus Drive through the Land Court Application 1375 and Land Court Application 1106 areas.

“NAHUINA” a 2-1/2” pipe in concrete as shown on Map 1 of Land Court Application 1375 dated June 12, 1942, was found and adopted for the two land courts.

The boundary pins found varied from 1 inch to 1 foot from their record locations.

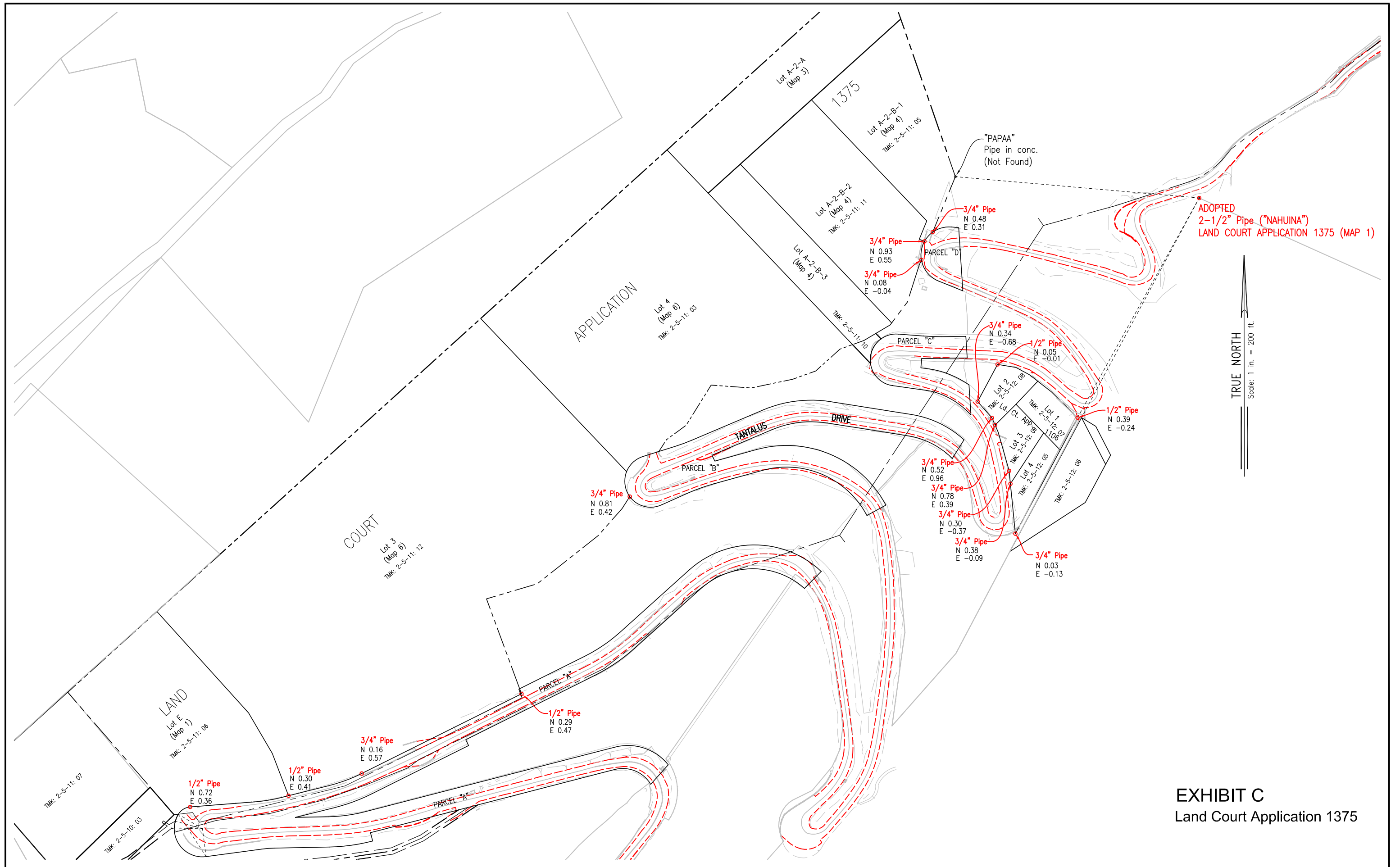


EXHIBIT C
Land Court Application 1375

EXHIBIT D – PORTION TMK: 2-5-12

TMK: 2-5-12

Grants 4424, 4426 & 4589. CSF No. 12,222.

Exhibit D shows Tantalus Drive through a portion of TMK: 2-5-12

A 3/4" pipe was found on the property corner of TMK: 2-5-12: 13 and adopted for the Grants in this area. A check to the tie with "Nahuina" is with about 3" off the record. The other boundary pins found in these Grants were about 2 to 3 inches from their record locations.

A 1" pipe was found and adopted for TMK: 2-5-12: 03, Grant 4589. The other 1" pipe found on this property is about 3 inches from its record location. A copy of the Status Report for this property is included as Appendix E.

No record boundary information was found at either the Bureau of Conveyances or the State Survey Office for TMK: 2-5-12: 04. The parcel is as shown on the tax map.



TRUE NORTH
Scale: 1 in. = 150 ft.

EXHIBIT D
POR. TMK: 2-5-12

EXHIBIT E – TANTALUS RIDGE SUBDIVISION

TMK: 2-5-13 Lots 4, 5, 6, 7, & 7A
TMK: 2-5-14 Tantalus Ridge Subdivision

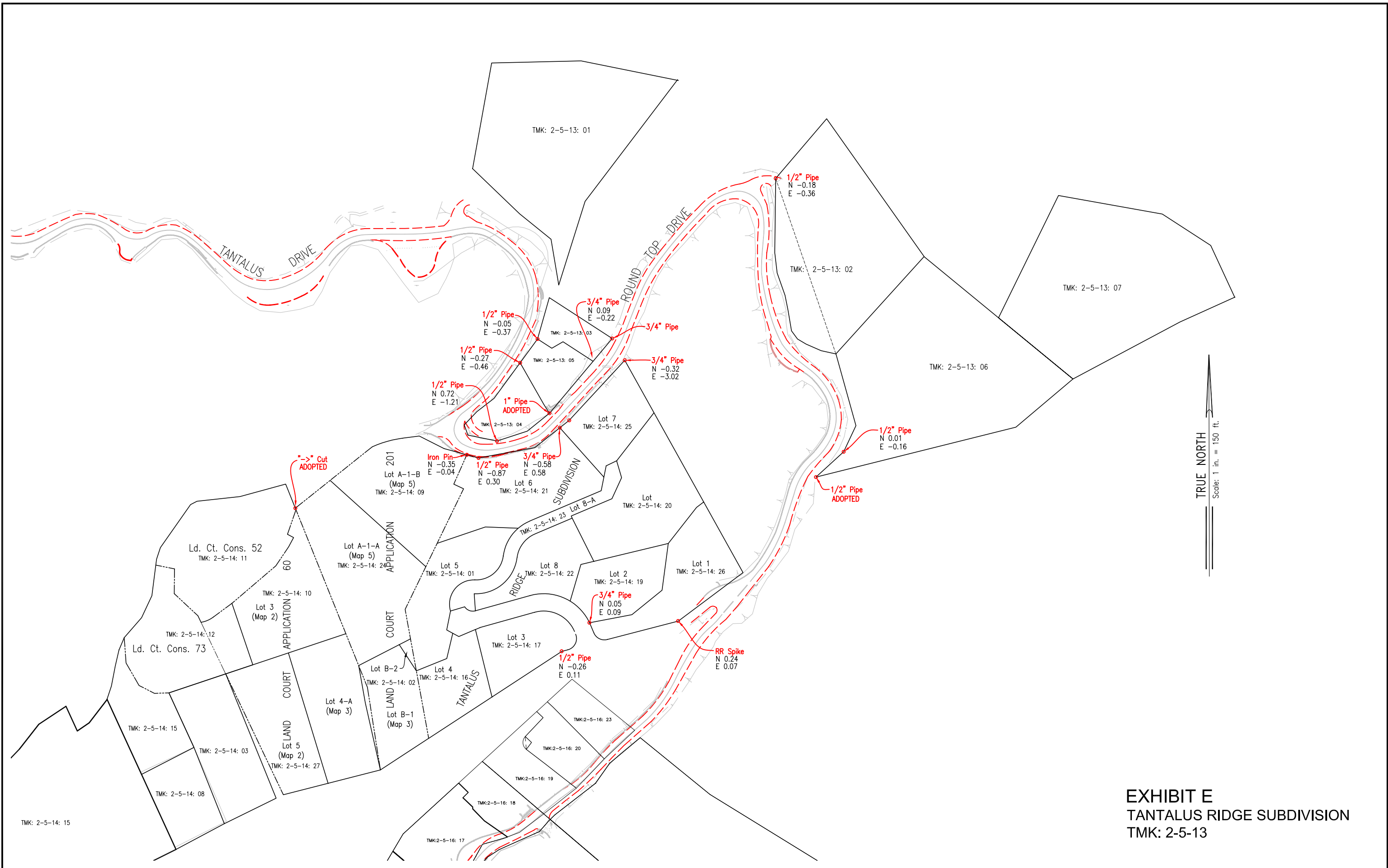
Exhibit E shows Tantalus Drive through TMK: 2-5-13 and Round Top Drive through the Tantalus Ridge Subdivision.

The record tie to "TANTALUS" Government Survey Triangulation Station in the description of TMK: 2-5-13: 01 (Grant 4425) was held as there were no boundary pins found for this property. The property owner was contacted and an account of his testimony is in a written memo and attached as Appendix G. Also attached as Appendix F, is the Status Report for this property.

For TMK: 2-5-13: 03, 04 & 05 a $\frac{3}{4}$ " pipe was found and adopted. Other boundary pins found are about 2" to 1 foot from their record location.

For TMK: 2-5-13: 02, 06 & 07 a $\frac{1}{2}$ " pipe was found and adopted. Other boundary pins found are about 2 inches from their record location.

"NAHUINA" a 2-1/2" pipe in concrete as shown on Map 1 of Land Court Application 1375 dated June 12, 1942, was found and adopted for the Tantalus Ridge Subdivision TMK: 2-5-14. The other boundary pins found in this subdivision were from 3 inches to one foot from their record locations, with one pin found 3 feet off.



TRUE NORTH
Scale: 1 in. = 150 ft.

EXHIBIT E
TANTALUS RIDGE SUBDIVISION
TMK: 2-5-13

EXHIBIT F – SCHMIDT ESTATE SUBDIVISION (FILE PLAN 58)

TMK: 2-5-16 Schmidt Estate Subdivision (File Plan 58)

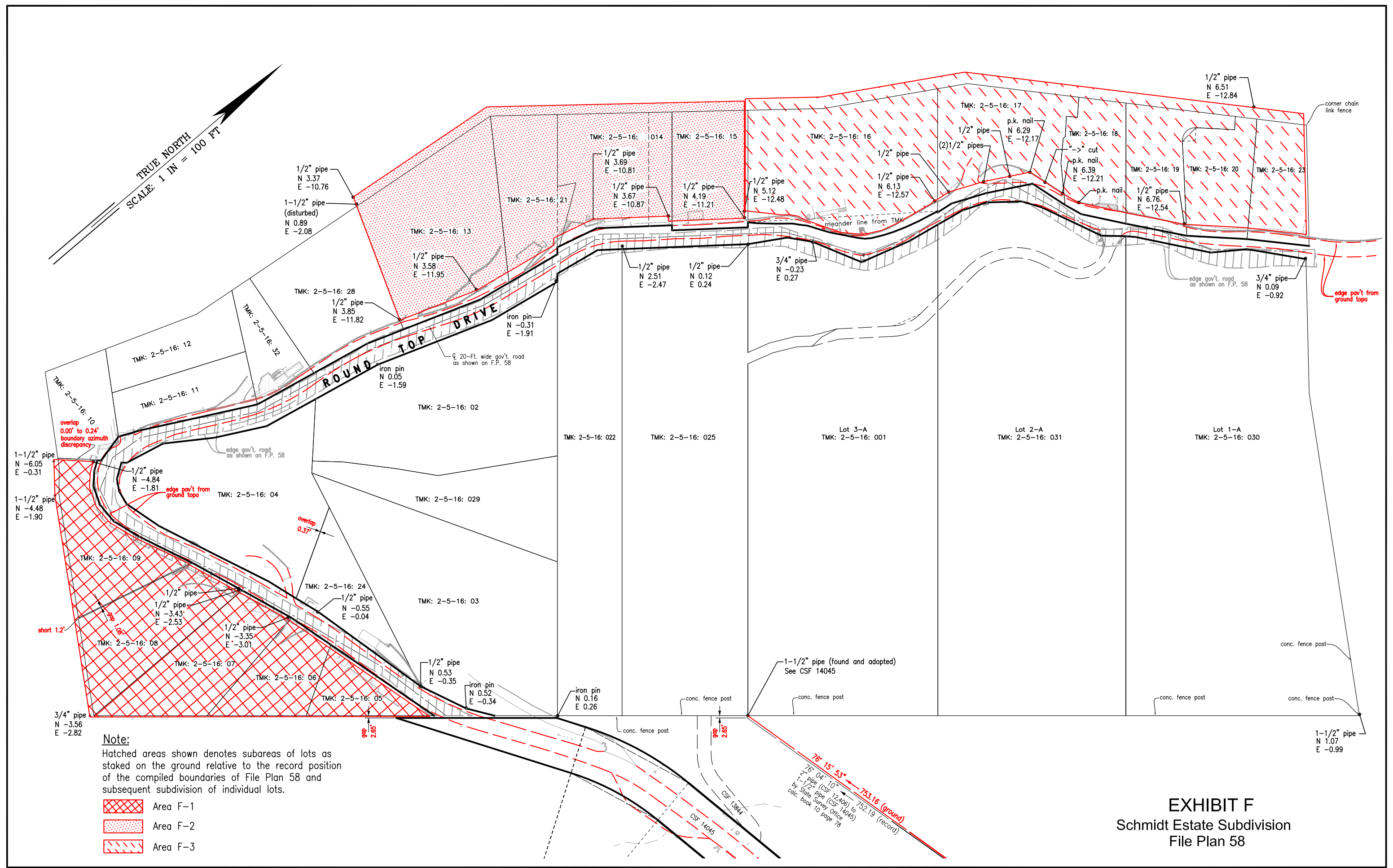
Exhibit F shows Round Top Drive through TMK: 2-5-16 and a portion of CSF No. 14,045.

Lots on the northern side of this subdivision have been staked on the ground as much as 12 feet off with lots on the southern side vary from 0.5 foot to 6 feet off.

The record boundaries of the entire Schmidt Estate Subdivision are holding a 1-1/2" pipe found and adopted as shown on CSF No. 14,045. There is a difference in the tie we observed from a 2" pipe held from previous CSF No. 12,406 to the 1-1/2" pipe adopted for CSF No. 14,045 as shown on the exhibit. Holding the 2" pipe of CSF No. 12,406 causes a 2 feet 8 inch gap between CSF No. 14,045 and the Schmidt Estate Subdivision.

Since the found boundary pins in this subdivision varied so much, the red hatched patterns on the exhibit show the lots shifted into three groups to match the found pins.

TRUE NORTH
SCALE: 1 IN = 100 FT



Note:
Hatched areas shown denotes subareas of lots as staked on the ground relative to the record position of the compiled boundaries of File Plan 58 and subsequent subdivision of individual lots.

- Area F-1
- Area F-2
- Area F-3

EXHIBIT F
Schmidt Estate Subdivision
File Plan 58

76' 15' 53" ← 753.16 (ground)
← 752.19 (record)
76' 04' 10"
2 1/2" pipe (CSF 12406) to
1 1/2" pipe (CSF 14045)
by State Survey Office
calc. book 10, page 76

EXHIBIT G – TANTALUS LOTS

TMK: 2-5-17 Tantalus Heights Lots
TMK: 2-5-18 Tantalus Lots

Exhibit G shows Round Top Drive through CSF No. 14,045, running adjacent to the Tantalus Heights Lots as shown on Registered Map No. 2397 dated May 1907, and then through the Tantalus Lots of TMK: 2-5-18.

The record boundaries of this exhibit have been divided into three areas holding three different boundary pins found.

The first area is from TMK: 2-5-17: 19 extending to the north and is holding the 2" pipe found at the corner of TMK: 2-5-17: 04. The boundary pins recovered in this area are about 1 to 1-1/2 feet different from record.

The next area is from TMK: 2-5-17: 13 to TMK: 2-5-17: 11 and is holding a 1/2" pipe found at the property corner of TMK: 2-5-17: 17.

The last area is from TMK: 2-5-18: 13 to the south and is holding the 1" pipe found at the corner of TMK: 2-5-18: 21 as shown on Map 1 of Land Court Application 1783. Other boundary pins found in this area are 2 to 3 inches different from record.

EXHIBIT H – BRASH SUBDIVISION

TMK: 2-5-18 Brash Subdivision (“KAKEA”)
TMK: 2-5-19: Por. 03 Parcel 2 Addition to Round Top Forest Reserve

Exhibit H shows Round Top Drive through TMK: 2-5-18, running adjacent to the Brash Subdivision as shown on Map No. 3028 dated April 1992 and a portion of TMK: 2-5-19.

The record boundaries of this exhibit are holding USMR Monument 2 of Parcel 2, found and adopted.

The boundary pins found for the Brash Subdivision are about 2 to 3 inches different from their record location. The pins found for the other lots of TMK: 2-5-18 are from 2 to 7 inches different from their record location.

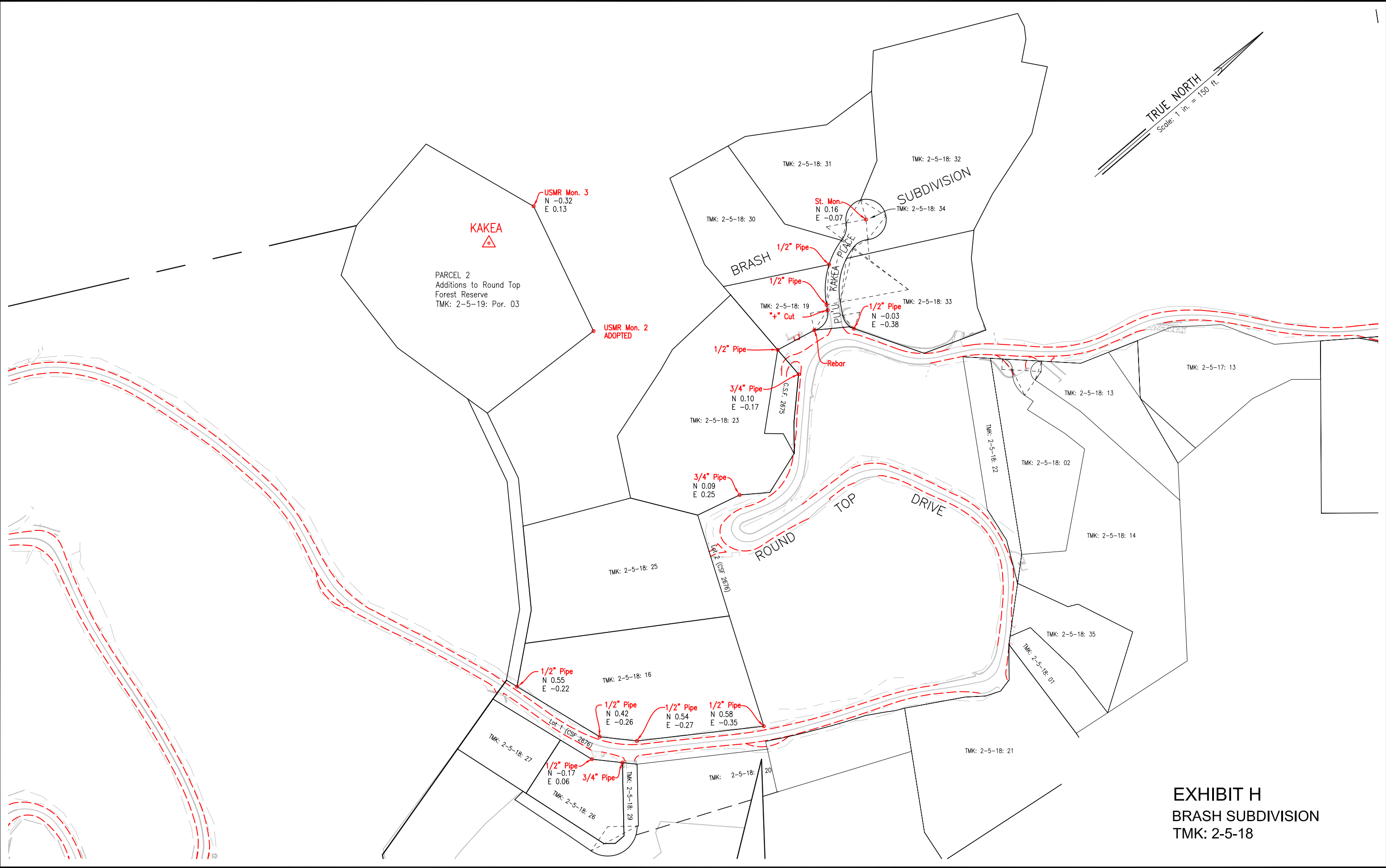
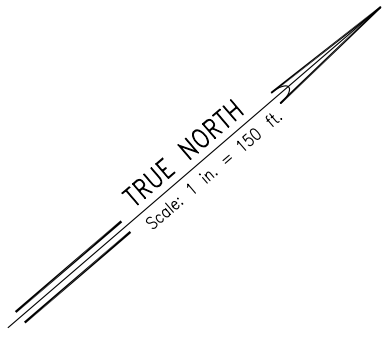


EXHIBIT H
BRASH SUBDIVISION
TMK: 2-5-18

EXHIBIT J – PORTION MANOA LOTS

TMK: 2-9-31: Por. 02 Land Court Application 157 Addition to Honolulu Watershed Reserve
TMK: 2-9-18: 01 & 02 CSF No. 8643

Exhibit J shows Round Top Drive through the lookout area adjacent to and above Manoa.

The record boundaries of this exhibit are holding “Pohakuloio“, a +” cut on large rock, found and adopted.

A 2” pipe as shown on Map 1 of Land Court Application 157 was found and is about 3 inches different from its record location.

A 3/4” pipe was found on TMK: 2-9-18: 02 and is about 8 inches different from its record location.

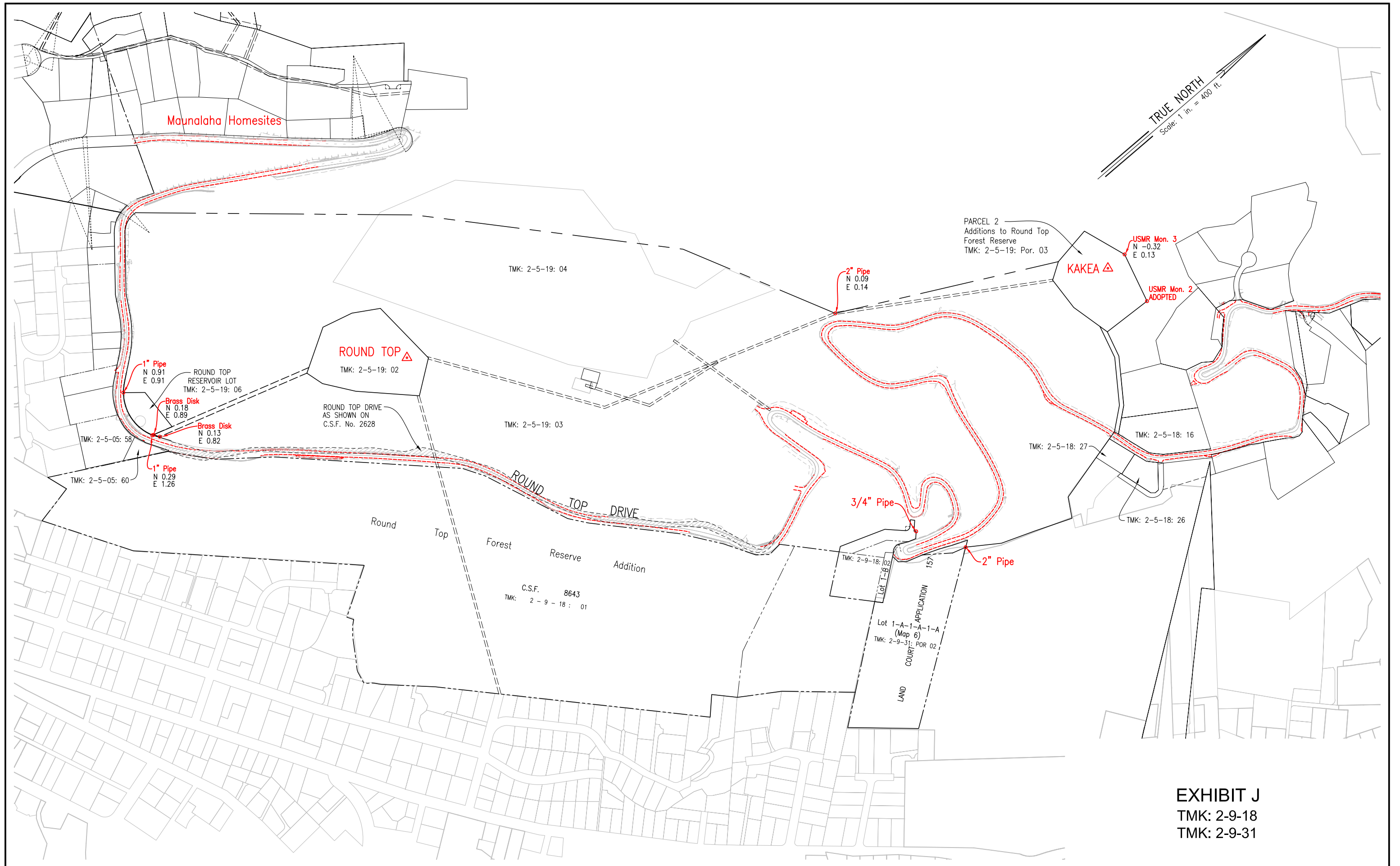


EXHIBIT J
TMK: 2-9-18
TMK: 2-9-31

EXHIBIT K – LAND COURT APPLICATION 1633

TMK: 2-5-05 Land Court Application 1633 (“MAKIKI”)

Exhibit K shows Round Top Drive on the south side of Puu Ualaka (Round Top), running adjacent to and above Land Court Application 1633 and before the recent landslide area.

The record boundaries of this exhibit are holding a 3/4" pipe as shown on Map 3 of Land Court Application 1633, found and adopted.

Other boundary pins found are 4 to 9 inches different from their record locations with one 2 feet off.

TRUE NORTH
Scale: 1 in. = 100 ft.

ROUND TOP DRIVE

ROUND TOP RESERVOIR LOT
TMK: 2-5-19: 06

TMK: 2-9-18: 01

3/4" Pipe
N -0.39
E -0.90
Lot 2
TMK: 2-5-05: 60

TMK: 2-5-20: 06

Nail
N 0.05
E -0.43

Perpetual Non-exclusive Driveway, Walkway,
Masonry Wall and Landscaping Easement
(C.S.F. No 20,952)

3/4" Pipe
ADOPTED

1/2" Pipe
N 0.30
E 0.06

3/4" Pipe
N 0.31
E 0.11

3/4" Pipe
N -1.52
E 2.05

TMK: 2-5-05: 35

TMK: 2-5-05: 11

Lot 1-A
TMK: 2-5-05: 05

Lot 1-B
TMK: 2-5-05: 37

Lot 1-C
TMK: 2-5-05: 38

Lot 1
TMK: 2-5-05: 58

Land Court Application

1633

(Map 3)

Lot 9-A
TMK: 2-5-05: 49

Lot 9-B

EXHIBIT K
LAND COURT APPLICATION 1633
TMK: 2-5-05

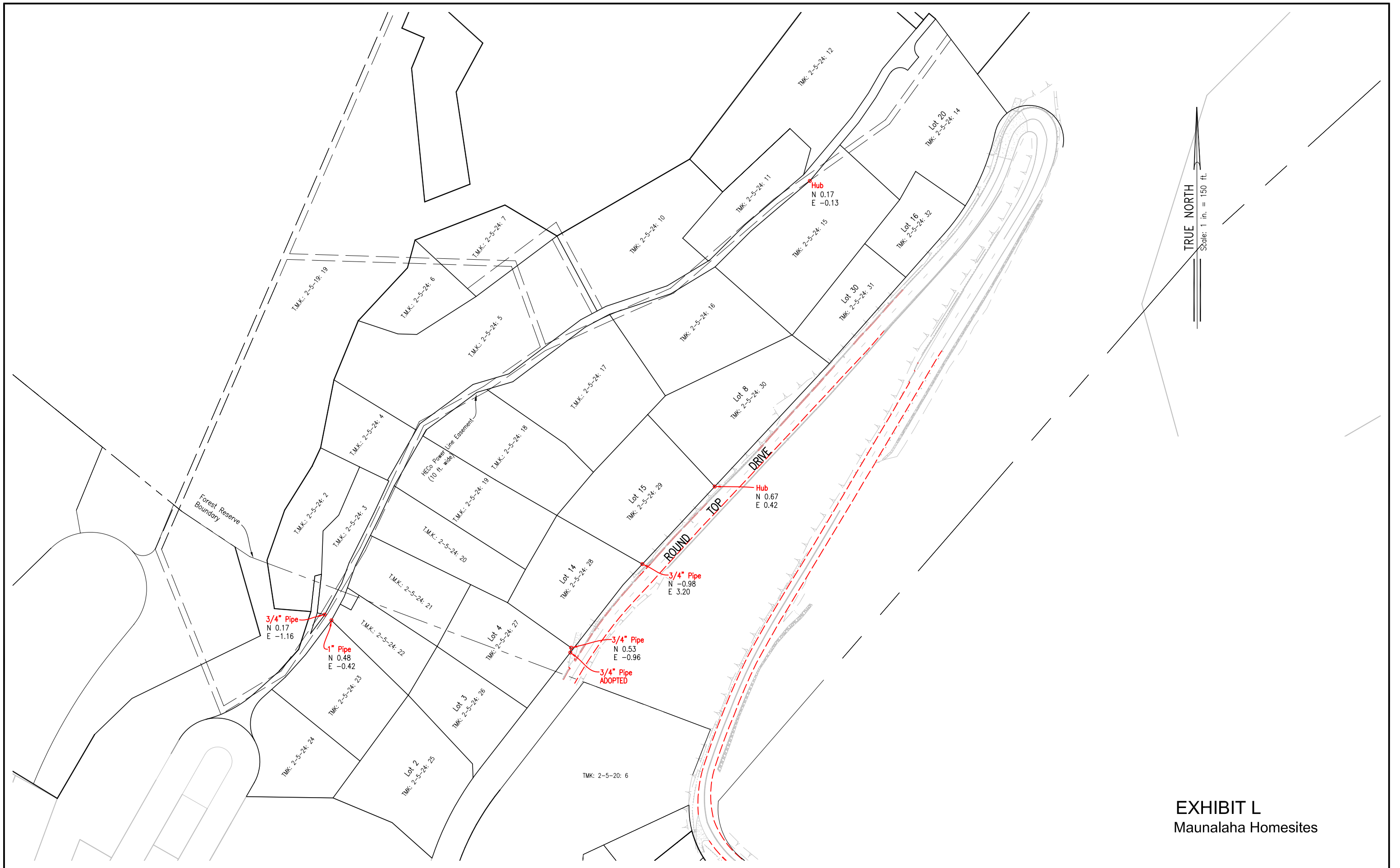
EXHIBIT L – MAUNALAHA HOMESITES

TMK: 2-5-24 Maunalaha Homesites (Registered Map 4157)

Exhibit L shows Round Top Drive running adjacent to the Maunalaha Homesites to the west and below, just after the recent landslide area.

The record boundaries of this exhibit are holding a 3/4" pipe found on the boundary of Lot 4.

The few other boundary pins found are 6 inches to 1 foot different from their record locations with one about 3 feet off. A hub set by government survey is about 2 inches from its record location.



TRUE NORTH
 Scale: 1 in. = 150 ft.

EXHIBIT L
 Maunala Homesites

The NGS Data Sheet

See file dsdata.txt for more information about the datasheet.

DATABASE = , PROGRAM = datasheet, VERSION = 7.64

1 National Geodetic Survey, Retrieval Date = NOVEMBER 24, 2008

TU1258 *****

TU1258 HT MOD - This is a Height Modernization Survey Station.

TU1258 DESIGNATION - PUNCHBOWL RESET

TU1258 PID - TU1258

TU1258 STATE/COUNTY- HI/HONOLULU

TU1258 USGS QUAD - HONOLULU (1983)

TU1258

TU1258 *CURRENT SURVEY CONTROL

TU1258

TU1258* NAD 83(1993)- 21 18 43.99098(N) 157 50 56.87349(W) ADJUSTED

TU1258* LOCAL TIDAL - 151.75 (meters) 497.9 (feet) GPS OBS

TU1258

TU1258 EPOCH DATE - 2006.00

TU1258 X - -5,505,989.059 (meters) COMP

TU1258 Y - -2,241,446.713 (meters) COMP

TU1258 Z - 2,303,694.790 (meters) COMP

TU1258 LAPLACE CORR- 3.36 (seconds) DEFLEC99

TU1258 ELLIP HEIGHT- 167.963 (meters) (04/16/08) ADJUSTED

TU1258 GEOID HEIGHT- 15.74 (meters) GEOID03

TU1258 HORZ ORDER - B

TU1258 ELLP ORDER - THIRD CLASS I

TU1258

TU1258.The horizontal coordinates were established by GPS observations

TU1258.and adjusted by the National Geodetic Survey in April 2008.

TU1258.The horizontal coordinates are valid at the epoch date displayed above.

TU1258.The epoch date for horizontal control is a decimal equivalence

TU1258.of Year/Month/Day.

TU1258

TU1258.The orthometric height was determined by GPS observations and a

TU1258.high-resolution geoid model using precise GPS observation and

TU1258.processing techniques.

TU1258

TU1258.The X, Y, and Z were computed from the position and the ellipsoidal ht.

TU1258

TU1258.The Laplace correction was computed from DEFLEC99 derived deflections.

TU1258

TU1258.The ellipsoidal height was determined by GPS observations

TU1258.and is referenced to NAD 83.

TU1258

TU1258.The geoid height was determined by GEOID03.

TU1258

TU1258; North East Units Scale Factor Converg.

TU1258;SPC HI 3 - 16,122.985 515,652.861 MT 0.99999303 +0 03 17.4

TU1258;UTM 04 - 2,357,138.229 619,363.840 MT 0.99977606 +0 25 06.0

TU1258

TU1258! - Elev Factor x Scale Factor = Combined Factor

TU1258!SPC HI 3 - 0.99997360 x 0.99999303 = 0.99996663

TU1258!UTM 04 - 0.99997360 x 0.99977606 = 0.99974967

TU1258

TU1258: Primary Azimuth Mark Grid Az

TU1258:SPC HI 3 - MOANA HOTEL FLAGSTAFF OLD 149 18 13.3

TU1258:UTM 04 - MOANA HOTEL FLAGSTAFF OLD 148 56 24.7

TU1258

TU1258|-----|

TU1258	PID	Reference Object	Distance	Geod. Az
TU1258				ddmmss.s
TU1258	TU1341	MOANA HOTEL FLAGSTAFF OLD	APPROX. 4.6 KM	1492130.7
TU1258	TU1340	MOANA HOTEL FLAGSTAFF	APPROX. 4.6 KM	1492120.2
TU1258	TU1220	HONOLULU ROYAL HAWAIIAN C TWR	APPROX. 4.4 KM	1512923.8
TU1258	CJ8963	PUNCHBOWL RM 1	6.808 METERS	15447
TU1258	TU1230	FORT DE RUSSY FLAGPOLE	APPROX. 3.8 KM	1553024.4
TU1258	TU1242	HONOLULU ILIKAI HOTEL CUPOLA	APPROX. 3.3 KM	1602349.7
TU1258	TU1273	KEWALO BASIN R RNG LT	APPROX. 2.1 KM	2033732.5
TU1258	TU1276	KEWALO BASIN F RNG LT	APPROX. 2.2 KM	2035832.7
TU1258	TU1290	HONOLULU NEW INCINERATOR STACK	APPROX. 2.4 KM	2122333.7
TU1258	TU1295	PUMPING STATION CHIMNEY	APPROX. 2.1 KM	2223020.6
TU1258	TU1300	CREMATORY RED BRICK CHIMNEY	APPROX. 2.2 KM	2230331.8
TU1258	TU1313	USE SEAWALL	APPROX. 2.4 KM	2271655.1
TU1258	TU1325	RED BEACON 4	APPROX. 3.1 KM	2283800.1
TU1258	TU1324	RED BEACON 6	APPROX. 2.8 KM	2310019.6
TU1258	TU1308	IMMIGRATION BUILDING FLAGSTAFF	APPROX. 2.0 KM	2310950.3
TU1258	TU1353	BLACK BEACON 3	APPROX. 3.1 KM	2312126.4
TU1258	TU1317	RED BEACON 8	APPROX. 2.5 KM	2324940.5
TU1258	TU1348	BLACK BEACON 5	APPROX. 2.9 KM	2340611.1
TU1258	TU1349	HONOLULU HARBOR BEACON 3	APPROX. 2.9 KM	2340728.8
TU1258	TU1296	WIRELESS POLE TOP	APPROX. 1.7 KM	2351839.4
TU1258	TU1322	BLACK BEACON 7	APPROX. 2.6 KM	2361350.4
TU1258	TU1280	HONOLULU JUDICIARY BLDG FS	APPROX. 1.3 KM	2362904.8
TU1258	TU1346	SAND ISLAND LIGHT	APPROX. 2.5 KM	2382948.0
TU1258	TU1344	FRONT RANGE LIGHTHOUSE	APPROX. 2.3 KM	2400820.0
TU1258	TU1316	SAND ISLAND LIGHT	APPROX. 2.3 KM	2411157.7
TU1258	TU1311	REAR RANGE LIGHTHOUSE	APPROX. 1.9 KM	2523019.6
TU1258	TU1302	HONOLULU HARBOR F RNG LT	APPROX. 1.6 KM	2531504.5
TU1258	CJ8964	PUNCHBOWL RM 2	4.156 METERS	25320
TU1258	TU1342	HACKFIELD BUILDING FLAGSTAFF	APPROX. 1.6 KM	2532825.1
TU1258	TU1384	KALIHI CHANNEL RED LIGHT 6	APPROX. 5.1 KM	2533706.8
TU1258	TU1387	KALIHI CHANNEL GREEN LIGHT 5	APPROX. 5.2 KM	2541811.4
TU1258	TU1360	QUARANTINE FLAGSTAFF	APPROX. 2.9 KM	2563654.5
TU1258	TU1382	KALIHI CHANNEL RED LIGHT 8	APPROX. 4.9 KM	2595004.2
TU1258	TU1385	KALIHI CHANNEL GREEN LIGHT 9	APPROX. 5.0 KM	2603125.5
TU1258	CJ8965	PUNCHBOWL RM 3	2.110 METERS	26042
TU1258	TU1379	KALIHI CHANNEL RED LIGHT 12	APPROX. 4.6 KM	2642822.3
TU1258	TU1383	KALIHI CHANNEL F RNG LT	APPROX. 4.8 KM	2654820.7
TU1258	TU1381	KALIHI CHANNEL GREEN LIGHT 13	APPROX. 4.8 KM	2654813.4
TU1258	TU1377	KALIHI CHANNEL RED LIGHT 16	APPROX. 4.5 KM	2672201.4
TU1258	TU1404	STA G HONOLULU AHUA PT ATC TWR	APPROX. 8.0 KM	2684749.7
TU1258	TU1401	HONOLULU AHUA PT RADAR TOWER	APPROX. 7.9 KM	2695549.0
TU1258	TU1371	KALIHI CHANNEL RED LIGHT 20	APPROX. 4.2 KM	2705241.7
TU1258	TU1378	KALIHI CHANNEL GREEN LIGHT 17	APPROX. 4.6 KM	2712226.0
TU1258	TU1374	KALIHI CHANNEL GREEN LIGHT 19	APPROX. 4.3 KM	2724939.0
TU1258	TU1380	KALIHI CHANNEL R RNG LT	APPROX. 4.7 KM	2731220.8
TU1258	TU1656	EWA MILL OLD STACK	APPROX. 19.6 KM	2785445.4
TU1258	TU1393	HONOLULU INTL APT CONT TWR BCN	APPROX. 6.5 KM	2801631.4
TU1258	TU1411	HICKAM AFB CONTROL TOWER	APPROX. 10.3 KM	2825121.0
TU1258	TU1326	HONOLULU HAWAIIAN PINEAPPLE TK	APPROX. 2.4 KM	2825640.3
TU1258	TU1418	HICKAM AFB BEACON	APPROX. 11.3 KM	2834407.0
TU1258	TU1320	HONOLULU AMERICAN CANNERY TANK	APPROX. 2.2 KM	2835639.9
TU1258	TU1649	PEARL HARBOR WEST LOCH TANK	APPROX. 16.8 KM	2852142.4
TU1258	TU1426	HICKAM AFB WATER TOWER	APPROX. 12.2 KM	2860914.4
TU1258	TU1399	HONOLULU INTL APT CONT TWR BCN	APPROX. 7.7 KM	2864052.6
TU1258	TU1416	PEARL HARBOR WATER TANK B	APPROX. 11.8 KM	2912436.1
TU1258	TU1611	LOOKOUT TOWER	APPROX. 17.2 KM	2925418.4
TU1258	TU1425	PEARL HARBOR FORD IS CONT TWR	APPROX. 12.8 KM	2944317.9
TU1258	TU1410	PEARL HARBOR ESCAPE TRAIN TWR	APPROX. 10.8 KM	2962028.6
TU1258	TU1615	WAIPAHAU MILL OLD STK OAHU MILL	APPROX. 18.4 KM	2963026.8
TU1258	TU1409	PEARL HARBOR MAKALAPA W RAD TR	APPROX. 9.9 KM	2971515.9
TU1258	TU1402	HONOLULU MOANALUA WATER TANK	APPROX. 9.0 KM	2981808.8

TU1258| TU1365 OAHU JAIL FLAG APPROX. 4.1 KM 2985501.6 |
 TU1258| TU1329 HONOLULU BOARD WTR SUPPLY STK APPROX. 2.9 KM 3062218.3 |
 TU1258| TU1367 MILL CHIMNEY APPROX. 4.6 KM 3062803.7 |
 TU1258| TU1392 SALT LAKE RESET APPROX. 8.3 KM 3124619.5 |
 TU1258| TU1368 FORT SHAFTER FLAGSTAFF APPROX. 5.5 KM 3134819.7 |
 TU1258| TU1373 HONOLULU TRIPLER HOSP TWIN LTS APPROX. 6.8 KM 3205540.5 |
 TU1258| TU1266 KAMEHAMEHA SCHOOL CUPOLA APPROX. 3.4 KM 3484939.2 |

TU1258|-----|

TU1258

TU1258

SUPERSEDED SURVEY CONTROL

TU1258

TU1258 NAD 83(1993)- 21 18 43.99035(N) 157 50 56.87315(W) AD(2006.00) A
 TU1258 ELLIP H (11/22/06) 168.956 (m) GP() 2 1
 TU1258 NAD 83(1993)- 21 18 43.99034(N) 157 50 56.87448(W) AD(1993.62) 3
 TU1258 NAD 83(1986)- 21 18 43.94013(N) 157 50 56.88361(W) AD() 3
 TU1258 OLD HI - 21 18 55.33321(N) 157 51 06.75850(W) AD() 3

TU1258

TU1258.Superseded values are not recommended for survey control.

TU1258.NGS no longer adjusts projects to the OLD HI datum.

TU1258.See file dsdata.txt to determine how the superseded data were derived.

TU1258

TU1258_U.S. NATIONAL GRID SPATIAL ADDRESS: 4QFJ1936457138(NAD 83)

TU1258_MARKER: DD = SURVEY DISK

TU1258_SETTING: 0 = UNSPECIFIED SETTING

TU1258_STAMPING: PUNCHBOWL 1873 1928

TU1258_MAGNETIC: N = NO MAGNETIC MATERIAL

TU1258_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

TU1258+STABILITY: SURFACE MOTION

TU1258_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

TU1258+SATELLITE: SATELLITE OBSERVATIONS - October 22, 2007

TU1258

TU1258	HISTORY	- Date	Condition	Report By
TU1258	HISTORY	- 1942	MONUMENTED	HITS
TU1258	HISTORY	- 1943	GOOD	CGS
TU1258	HISTORY	- 1943	GOOD	USE
TU1258	HISTORY	- 1955	GOOD	CGS
TU1258	HISTORY	- 1963	GOOD	CGS
TU1258	HISTORY	- 1969	GOOD	CGS
TU1258	HISTORY	- 1970	GOOD	NGS
TU1258	HISTORY	- 1973	GOOD	NGS
TU1258	HISTORY	- 20040710	GOOD	HIDT
TU1258	HISTORY	- 20071022	GOOD	HIDT

TU1258

TU1258

STATION DESCRIPTION

TU1258

TU1258'DESCRIBED BY HAWAII TERRITORIAL SURVEY 1942
 TU1258'WITH REFERENCE TO THE REPORT OF FEBRUARY 18, 1942 ON RECOVERY
 TU1258'NOTE OF 1928-29, THE U.S. ENGINEERS WERE DIRECTED TO REESTABLISH
 TU1258'AND RE-MARK THIS STATION. ON FEBRUARY 25, 1942, T.J.K. EVANS OF
 TU1258'THE TERRITORIAL SURVEY DEPARTMENT SUPERVISED THE RE-MARKING OF
 TU1258'THIS STATION WITH A TYPE B MARKER, AS SHOWN BELOW.
 TU1258'
 TU1258'THE REFERENCE MARKS GIVEN IN 1928-29 RECOVERY WERE FOUND AND
 TU1258'ARE STILL IN EXISTENCE, NAMELY--NO. 1, THE BENCH MARK SET BY THE
 TU1258'U.S. GEOLOGICAL SURVEY 22.67 FEET FROM STATION IN AZIMUTH 333 DEG
 TU1258'58 MIN AND NO. 2, A STANDARD REFERENCE-MARK DISK 13.62 FEET FROM
 TU1258'STATION IN AZIMUTH 73 DEG 10 MIN.
 TU1258'
 TU1258'MR. EVANS OCCUPIED PUNCHBOWL EAST STATION AND OBSERVED ON THE
 TU1258'RECOVERED STATION IN AZIMUTH 85 DEG 14 MIN 39.9 SEC 2038.4
 TU1258'FEET AND ALSO TRANSFERRED AN ELEVATION FROM SAID PUNCHBOWL EAST
 TU1258'(HAVING AN ALTITUDE OF 435.73 FEET AT THE TOP OF PIPE) FROM SAID
 TU1258'STATION TO THE BRONZE DISK MARKING PUNCHBOWL BY VERTICAL ANGLES.

TU1258'

TU1258'THE ELEVATION OF THE BRONZE DISK MARKING STATION IS 497.23 FEET
TU1258'AND OF R.M. 1 496.50 FEET, WHICH ELEVATION WAS ALSO DETERMINED
TU1258'BY VERTICAL ANGLES FROM STATION.

TU1258

TU1258

STATION RECOVERY (1943)

TU1258

TU1258'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1943 (RDH)

TU1258'NEW CONSTRUCTION NECESSITATED REMOVAL OF THE ORIGINAL R.M. 1 AND
TU1258'IT WAS REINSTALLED BY THE U.S.E. IN ACCORDANCE WITH THE FOLLOWING
TU1258'NOTE--R.M. 1 IS A STANDARD U.S.C. AND G.S. DISK SET IN ROOF OF
TU1258'CONCRETE BUILDING, 6.809 METERS (22.34 FEET) FROM STATION IN
TU1258'AZIMUTH 334 DEG 42 MIN.

TU1258'

TU1258'THE STATION MARK AND R.M. 2 WERE UNDISTURBED AND ARE IN
TU1258'AGREEMENT WITH THE OLD DESCRIPTION.

TU1258'

TU1258'STATION IS REACHED FROM HONOLULU BY GOING NE ON QUEEN EMMA
TU1258'STREET TO LUSITANA STREET TO PUOWAINA DRIVE, CONTINUING ON
TU1258'PUOWAINA DRIVE TO THE S RIM OF PUNCHBOWL CRATER. THE STATION IS
TU1258'ON THE HIGHEST POINT OF THE CRATER RIM.

TU1258'

TU1258'THE NEW R.M. 1 WAS RESET BY GORDON E. FORREST, SURVEY SECTION,
TU1258'U.S. ENGINEERS.

TU1258

TU1258

STATION RECOVERY (1943)

TU1258

TU1258'RECOVERY NOTE BY US ENGINEERS 1943

TU1258'R.M. 1 IS A STANDARD U.S.C. AND G.S. DISK SET IN ROOF OF CONCRETE
TU1258'BUILDING, 6.809 METERS (22.34 FEET) FROM STATION IN AZIMUTH
TU1258'334 DEG 42 MIN.

TU1258'

TU1258'STATION IS REACHED FROM HONOLULU BY GOING NE ON QUEEN EMMA
TU1258'STREET TO LUSITANA STREET TO PUOWAINA DRIVE, CONTINUING ON
TU1258'PUOWAINA DRIVE TO THE S RIM OF PUNCHBOWL CRATER. THE STATION IS
TU1258'ON THE HIGHEST POINT OF THE CRATER RIM.

TU1258

TU1258

STATION RECOVERY (1955)

TU1258

TU1258'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1955 (HOF)

TU1258'THE STATION MARK WAS RECOVERED IN GOOD CONDITION AS PREVIOUSLY
TU1258'DESCRIBED IN 1942 AND 1943. A STEEL, RED AND WHITE TARGET, OF
TU1258'THE CROSS BANNER TYPE USED BY THE C AND GS, HAS BEEN ERECTED OVER
TU1258'THE MARK BY HAWAIIAN TERRITORIAL SURVEY DEPARTMENT. THE REFERENCE
TU1258'MARKS WERE NOT SEARCHED FOR.

TU1258

TU1258

STATION RECOVERY (1963)

TU1258

TU1258'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1963 (WRP)

TU1258'STATION MARK AND REFERENCE MARK NUMBER ONE WERE RECOVERED IN
TU1258'GOOD CONDITION. REFERENCE MARK NUMBER TWO WAS FOUND IN POOR
TU1258'CONDITION. IT WAS COVERED WITH DIRT AND VEGETATION, WHICH HAS
TU1258'CAUSED THE ROCK TO ERODE UNTIL THE DISK EXTENDS 1 INCH FROM THE
TU1258'ROCK. THE ARROW POINTS ABOUT 30 DEGREES RIGHT OF THE STATION
TU1258'MARK AND THE LOCATION OF THE MARK MAKES IT VERY DIFFICULT TO
TU1258'MEASURE ACCURATELY TO THE STATION. REFERENCE MARK NUMBER TWO
TU1258'WAS RE-INFORCED WITH CEMENT AND A NEW REFERENCE MARK, NUMBER
TU1258'THREE, WAS ESTABLISHED. A COMPLETE DESCRIPTION FOLLOWS--

TU1258'

TU1258'STATION IS LOCATED ABOUT 0.8 MILE AIRLINE NORTHEAST OF THE FEDERAL
TU1258'BUILDING IN HONOLULU, ON THE WEST RIM OF PUNCHBOWL CRATER, AND ON
TU1258'THE HIGHEST KNOLL ON THE RIM.

TU1258'

TU1258'TO REACH STATION FROM THE OFFICE OF THE PUNCHBOWL CEMETERY
 TU1258'(NATIONAL MEMORIAL CEMETERY OF THE PACIFIC), JUST INSIDE THE
 TU1258'ENTRANCE GATE TO PUNCHBOWL CRATER, GO LEFT AND FOLLOW S. OUTER
 TU1258'DRIVE AROUND SOUTH SIDE OF CEMETERY FOR 0.3 MILE TO JUNCTION WITH
 TU1258'OBSERVATION POINT DRIVE, AND END OF TRUCK TRAVEL. PACK WESTERLY
 TU1258'ON DIM TRAIL UP THROUGH BRUSH FOR ABOUT 75 YARDS TO TOP OF KNOLL
 TU1258'AND STATION.

TU1258'

TU1258'STATION MARK IS AN UNSTAMPED, HAWAII TERRITORIAL SURVEY DISK,
 TU1258'SET IN CONCRETE, ABOUT 7 INCHES BELOW GROUND LEVEL. IT IS 4.5
 TU1258'FEET NORTHWEST OF THE NORTHWEST CORNER OF A CONCRETE
 TU1258'PILLBOX. THERE IS A TYPE B, HAWAII TERRITORIAL SURVEY SIGNAL
 TU1258'CENTERED OVER THE MARK.

TU1258'

TU1258'REFERENCE MARK NUMBER ONE IS A STANDARD DISK, STAMPED PUNCHBOWL
 TU1258'NO 1, SET IN THE TOP OF A 12-INCH-SQUARE, CONCRETE BLOCK THAT
 TU1258'PROJECTS 1 FOOT FROM THE FLAT, CONCRETE ROOF OF THE PILLBOX. THE
 TU1258'MARK IS 8.7 FEET SOUTHEAST OF A TALL VENT-PIPE, 5 FEET SOUTHWEST
 TU1258'OF A SHORT VENT-PIPE, AND ABOUT 4-1/2 FEET HIGHER THAN STATION
 TU1258'MARK.

TU1258'

TU1258'REFERENCE MARK NUMBER TWO IS A STANDARD DISK STAMPED PUNCHBOWL
 TU1258'NO 2, CEMENTED IN A DRILL HOLE IN THE BOTTOM STEP OF A BEDROCK
 TU1258'LEDGE THAT DROPS DOWN TO THE SOUTHWEST FROM STATION ELEVATION. THE
 TU1258'MARK IS 4.7 FEET WEST OF A METAL STAKE, 5 FEET WEST OF A
 TU1258'RIGHT-ANGLE JOG IN THE BEDROCK LEDGE, AND 4.3 FEET LOWER THAN
 TU1258'STATION MARK.

TU1258'

TU1258'REFERENCE MARK NUMBER THREE IS A STANDARD DISK STAMPED PUNCHBOWL
 TU1258'1873-1928 NO 3 1963, CEMENTED IN A DRILL HOLE IN THE TOP OF A
 TU1258'BEDROCK LEDGE. IT IS 3-1/2 FEET EAST OF THE METAL STAKE AND ABOUT
 TU1258'0.3 FOOT HIGHER THAN STATION MARK.

TU1258

STATION RECOVERY (1969)

TU1258

TU1258'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1969 (CAA)
 TU1258'STATION MARK, REFERENCE MARKS 1, 2 AND 3 WERE RECOVERED AS
 TU1258'DESCRIBED IN THE 1963 DESCRIPTION AND WERE FOUND IN GOOD
 TU1258'CONDITION. THE TO REACH IS ADEQUATE.

TU1258'

TU1258'NO MEASUREMENT BETWEEN REFERENCE MARKS DUE TO THEIR LOCATION.

TU1258'

TU1258'AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN
 TU1258'0.8 MILE NORTHEAST OF FEDERAL BUILDING IN HONOLULU.

TU1258

TU1258

STATION RECOVERY (1970)

TU1258

TU1258'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1970 (EHF)
 TU1258'PREVIOUS DESCRIPTION OF 1963 IS ADEQUATE. THE REFERENCE MARKS
 TU1258'ARE IN GOOD CONDITION.

TU1258'

TU1258'THE TYPE B SUPERSTRUCTION OVER THE STATION HAS BEEN CONVERTED
 TU1258'TO TYPE A. THE SIDE WALLS ARE BUILT OF CONCRETE TILE BLOCKS
 TU1258'ABOUT 6 FEET HIGH AND SUPPORTING A 6X6 FOOT CONCRETE OBSERVING
 TU1258'PLATFORM. THE STATION MARK IS ACCESSIBLE FOR INSPECTION. THIS
 TU1258'WORK WAS COMPLETED ON JANUARY 30, 1970.

TU1258

TU1258

STATION RECOVERY (1973)

TU1258

TU1258'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1973 (JVT)
 TU1258'THE STATION AND REFERENCE MARKS WERE RECOVERED AS DESCRIBED.

TU1258

TU1258

STATION RECOVERY (2004)

TU1258

TU1258'RECOVERY NOTE BY HAWAII DEPARTMENT OF TRANSPORTATION 2004 (CBG)

TU1258'RECOVERED BY STATE OF HAWAII DEPARTMENT OF TRANSPORTATION 2004 (CBG)

TU1258'RECOVERED MARK, TO REACH STATION ADEQUATE

TU1258

TU1258 STATION RECOVERY (2007)

TU1258

TU1258'RECOVERY NOTE BY HAWAII DEPARTMENT OF TRANSPORTATION 2007 (CG)

TU1258'RECOVERED AS DESCRIBED

*** retrieval complete.

Elapsed Time = 00:00:03

The NGS Data Sheet

See file dsdata.txt for more information about the datasheet.

DATABASE = , PROGRAM = datasheet, VERSION = 7.61

1 National Geodetic Survey, Retrieval Date = OCTOBER 20, 2008

TU0413 *****

TU0413 DESIGNATION - H 2

TU0413 PID - TU0413

TU0413 STATE/COUNTY- HI/HONOLULU

TU0413 USGS QUAD - HONOLULU (1983)

TU0413

TU0413 *CURRENT SURVEY CONTROL

TU0413

TU0413* NAD 83(1986)- 21 17 55. (N) 157 50 05. (W) SCALED

TU0413* LOCAL TIDAL - 9.611 (meters) 31.53 (feet) ADJ UNCH

TU0413

TU0413 GEOID HEIGHT- 15.68 (meters) GEOID03

TU0413 VERT ORDER - FIRST CLASS II

TU0413

TU0413.The horizontal coordinates were scaled from a topographic map and have
TU0413.an estimated accuracy of +/- 6 seconds.

TU0413

TU0413.The orthometric height was key entered from printed documents
TU0413.and not key verified.

TU0413

TU0413.The geoid height was determined by GEOID03.

TU0413

TU0413;		North	East	Units	Estimated Accuracy
---------	--	-------	------	-------	--------------------

TU0413;SPC HI 3	-	14,620.	517,150.	MT	(+/- 180 meters Scaled)
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TU0413

TU0413 SUPERSEDED SURVEY CONTROL

TU0413

TU0413.No superseded survey control is available for this station.

TU0413

TU0413_U.S. NATIONAL GRID SPATIAL ADDRESS: 4QFJ208556(NAD 83)

TU0413_MARKER: DB = BENCH MARK DISK

TU0413_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

TU0413_SP_SET: SET IN TOP OF CONCRETE MONUMENT

TU0413_STAMPING: H 2

TU0413_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

TU0413+STABILITY: SURFACE MOTION

TU0413

TU0413	HISTORY	- Date	Condition	Report By
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TU0413	HISTORY	- UNK	MONUMENTED	CGS
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TU0413	HISTORY	- 1969	GOOD	NGS
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TU0413	HISTORY	- 19990422	GOOD	USPSQD
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TU0413

TU0413 STATION DESCRIPTION

TU0413

TU0413'DESCRIBED BY NATIONAL GEODETIC SURVEY 1969

TU0413'2.0 MI SE FROM HONOLULU.

TU0413'0.25 MILES NORTHEAST ALONG RICHARDS STREET FROM THE POST OFFICE AT
TU0413'HONOLULU, THENCE 1.75 MILES SOUTHEAST ALONG SOUTH BERETANIA STREET, AT
TU0413'THE EAST CORNER OF THE JUNCTION OF PUNAHOU STREET, AT THE SOUTHWEST
TU0413'CORNER OF THE GROUNDS OF THE CENTRAL UNION CHURCH, 14.0 FEET NORTHEAST
TU0413'OF THE NORTHEAST EDGE OF THE NORTHEAST SIDEWALK OF SOUTH BERETANIA

TU0413'STREET, 33.3 FEET SOUTHEAST OF A METAL TRAFFIC SIGNAL POST, 15.0 FEET
TU0413'SOUTHWEST OF A MONUMENT WITH A CENTRAL UNION CHURCH PLAQUE, IN THE TOP
TU0413'OF A CONCRETE POST PAINTED YELLOW AND PROJECTS 0.5 FOOT ABOVE THE
TU0413'GROUND.

TU0413

TU0413 STATION RECOVERY (1999)

TU0413

TU0413'RECOVERY NOTE BY US POWER SQUADRON 1999

TU0413'RECOVERED IN GOOD CONDITION.

*** retrieval complete.

Elapsed Time = 00:00:00

07152-PRIMARY-CONTROL-NETWORK.CR5 11/24/08 15:14:04

Point	Northing	Easting	Elevation	Description
1	0.0000	0.0000	0.00	PUNCHBOWL
2	168.9528	2,031.4864	0.00	PUNCHBOWL EAST
3	1,823.3092	4,170.8063	0.00	STA. CP-2294 MAG
4	2,161.9876	4,527.7119	414.25	STA. CP-2355 MAG
5	2,321.4812	5,209.7258	448.14	STA. CP-2408 RR
6	2,071.5671	5,291.5238	464.08	STA. CP-162 Y-CU
7	1,829.9024	4,999.0875	486.76	STA. CP-164 Y-CU
8	1,647.3213	4,976.5565	493.76	STA. CP-165 + CU
9	1,471.7908	5,053.9991	501.70	BRASS DISK-1
10	1,124.7127	5,642.7390	536.33	STA. CP-169 MAG
11	1,104.2137	5,868.1548	550.13	STA. CP-170 Y-CU
12	1,161.8248	6,079.7253	568.32	STA. CP-171 RR S
13	1,778.4591	5,571.9768	617.02	STA. CP-174 Y-CU
14	1,862.7715	5,734.5359	630.12	STA. CP-175 RR S
15	1,735.7044	5,960.5197	645.87	STA. CP-176A 1/2
16	1,701.0119	6,298.4838	665.13	BRASS DISK-2
17	1,783.1066	6,155.8407	672.64	STA. CP-1A RR SP
18	1,971.2871	6,000.4931	687.97	STA. CP-3 RR SPI
19	2,217.5145	6,083.8019	702.88	STA. CP-4 Y-CUT
20	2,394.6286	6,076.0054	714.64	BRASS DISK-3
21	2,236.9142	6,382.6571	0.00	STA. CP-5 MON SP
22	2,232.9340	6,518.7309	750.76	BRASS DISK-4
23	2,645.7182	6,275.9454	780.95	STA. CP-7 Y-CUT
24	2,567.9040	6,617.5857	800.55	STA. CP-8 1/2" P
25	2,778.3178	6,570.5170	819.38	STA. CP-9 Y-CUT
26	2,858.1529	6,780.2020	840.20	BRASS DISK-5
27	3,188.9841	6,833.2547	870.11	STA. CP-13 RR SP
28	3,065.2426	6,787.5389	0.00	STA. CP-12
29	3,335.0905	6,948.9878	887.05	STA. CP-14 MAG N
30	3,603.9022	6,992.1509	910.72	STA. CP-14A MAG
32	3,754.9645	6,949.1794	924.51	STA. CP-15 MAG N
33	3,942.7301	6,935.7313	939.15	BRASS DISK-6
34	4,324.5622	7,383.6297	969.48	STA. CP-18 1/2"
35	4,552.3567	7,526.6791	981.38	STA. CP-19 MAG N
36	4,708.3581	7,594.9375	991.97	STA. CP-20 1/2"
37	4,921.2423	7,758.0104	1,005.60	STA. CP-22 1/2"
38	5,003.4554	7,703.5917	1,007.80	STA. CP-23 1/2"
39	4,898.0404	7,306.7055	1,026.10	STA. CP-24 MAG N
40	4,823.9662	6,909.9013	1,046.71	STA. CP-26 MAG N
41	4,840.1987	6,652.5257	1,060.35	STA. CP-27 1/2"
42	4,921.1781	6,995.3997	1,078.36	STA. CP-29 1/2"
43	5,114.8212	7,405.4674	1,103.16	STA. CP-31 1/2"
44	5,315.6535	7,743.3248	1,124.33	STA. CP-33 Y-CUT
45	5,465.6405	7,915.5667	0.00	STA. CP-34 1/2"
46	5,448.4184	8,083.1601	1,138.97	STA. CP-35 1/2"
47	5,243.0926	8,159.9976	1,143.49	STA. CP-36 1/2"
48	4,970.8998	8,174.8723	1,157.80	STA. CP-37 1/2"
49	4,819.5458	8,050.8424	1,166.54	BRASS DISK REF-A
50	4,891.8662	8,185.4440	1,171.99	STA. CP-38 1/2"
51	5,047.8353	8,252.8613	0.00	STA. CP-39 1/2"
52	5,280.1451	8,281.4971	1,194.73	STA. CP-40 1/2"
53	5,573.9819	8,254.1143	1,209.57	STA. CP-41 1/2"
54	5,690.4237	8,063.2145	1,218.22	STA. CP-42 1/2"
55	5,614.9332	7,681.4885	1,239.26	STA. CP-44 1/2"
56	5,710.5784	7,864.1518	1,252.45	STA. CP-45 1/2"
57	5,652.4596	7,731.8364	1,241.18	BRASS DISK-7
58	5,805.5082	8,064.0601	1,265.28	STA. CP-46 1/2"
59	5,761.8012	8,258.6346	1,273.65	STA. CP-47 1/2"
60	5,717.5403	8,431.4713	1,283.61	STA. CP-48 1/2"
61	5,525.8747	8,524.7095	1,296.31	STA. CP-49 1/2"
62	5,780.2106	8,501.7068	1,310.42	STA. CP-50 1/2"

07152-PRIMARY-CONTROL-NETWORK.CR5 11/24/08 15:14:04

Point	Northing	Easting	Elevation	Description
63	5,930.5734	8,235.3666	1,328.09	STA. CP-51 1/2"
64	5,940.0796	8,547.2228	1,348.48	STA. CP-52A MAG
65	5,811.9149	8,724.5393	1,361.19	STA. CP-53 1/2"
66	5,946.3390	8,709.9636	1,373.78	STA. CP-54 1/2"
67	6,067.7651	8,543.4626	1,387.35	STA. CP-55 1/2"
68	6,149.8665	8,346.9096	1,400.88	STA. CP-56 Y-CUT
69	6,206.8635	8,472.7681	1,409.16	STA. CP-57 1/2"
70	6,147.1722	8,652.7825	1,419.32	STA. CP-58 1/2"
71	6,115.3539	8,877.6617	1,439.76	STA. CP-59 1/2"
72	6,266.4423	8,805.4966	1,452.90	STA. CP-60 1/2"
73	6,370.1194	9,020.2988	1,461.94	BRASS DISK-8
74	6,679.3119	9,444.2879	1,460.87	BRASS DISK REF-B
75	6,667.8695	9,634.8818	1,467.51	STA. CP-65 1/2"
76	6,800.9995	9,751.5300	1,476.26	STA. CP-66 1/2"
77	6,832.1967	9,959.1553	1,487.67	STA. CP-67 1/2"
78	6,928.0533	10,127.8859	1,498.26	STA. CP-68 1/2"
79	7,092.1083	10,350.7296	1,515.13	STA. CP-69 1/2"
80	6,762.8664	10,462.5823	1,527.40	STA. CP-70A MAG
81	6,709.8287	10,669.7034	1,539.12	STA. CP-71 1/2"
82	6,834.3942	10,937.6004	1,553.49	STA. CP-72 1/2"
83	6,749.2793	11,126.7306	1,563.82	STA. CP-73 1/2"
84	6,813.4555	11,221.8772	0.00	STA. CP-74 1/2"
85	6,754.2712	11,333.6284	1,577.43	STA. CP-75 Y-CUT
86	6,761.7574	11,407.0145	0.00	STA. CP-76 Y-CUT
87	6,652.7974	11,541.4259	1,591.12	BRASS DISK-10
88	6,786.1744	11,694.2919	0.00	STA. CP-77 1/2"
89	6,793.0512	11,925.5067	1,612.88	STA. CP-78 1/2"
90	6,641.5580	12,010.7882	1,605.24	"STA, CP-79 Y-CU
91	6,538.9426	11,938.4373	0.00	STA. CP-80 Y-CUT
92	6,450.5665	11,852.5965	1,591.43	BRASS DISK-11
93	6,394.6048	11,941.1297	1,580.78	STA. CP-82 1/2"
94	6,462.8907	12,060.3839	1,570.85	STA. CP-83 1/2"
95	6,591.4636	12,166.2451	1,563.68	STA. CP-84 1/2"
96	6,739.4871	12,215.1499	0.00	STA. CP-85 1/2"
97	6,866.2961	12,373.2660	1,544.50	STA. CP-86 1/2"
98	6,571.6095	12,417.9364	1,528.78	STA. CP-87 1/2"
99	6,488.7247	12,533.6180	1,516.92	STA. CP-88 1/2"
100	6,322.4731	12,463.8925	0.00	STA. CP-89 1/2"
101	6,194.4127	12,379.3263	1,486.70	BRASS DISK-12
102	5,987.2225	12,247.6262	1,466.43	STA. CP-91 1/2"
103	5,770.8487	12,030.8379	1,440.13	STA. CP-92 1/2"
104	5,677.9799	11,875.4033	1,425.43	STA. CP-93 1/2"
105	5,520.0253	11,852.7132	1,413.38	STA. CP-94 1/2"
106	5,450.9980	11,741.5842	0.00	STA. CP-95 1/2"
107	5,295.5619	11,624.1511	1,385.81	STA. CP-96 1/2"
108	5,130.6995	11,611.2682	1,372.11	STA. CP-97 1/2"
109	4,984.6953	11,543.3103	0.00	STA. CP-98 1/2"
110	4,833.8985	11,522.0370	1,346.54	STA. CP-99 1/2"
111	4,706.2672	11,456.6383	1,335.36	STA. CP-100 RR S
112	4,668.6552	11,553.4421	1,330.30	STA. CP-101 1/2"
113	4,756.3300	11,729.7831	1,331.74	STA. CP-102 1/2"
114	4,785.9252	11,906.9563	1,335.66	STA. CP-103 1/2"
115	4,933.8378	12,126.9415	1,340.52	STA. CP-104 Y-CU
116	4,984.7650	12,469.2600	1,348.92	STA. CP-105 1/2"
117	4,865.1803	12,475.4740	1,353.08	STA. CP-106 1/2"
118	4,626.5170	12,301.3733	1,358.02	STA. CP-107 1/2"
119	4,391.7145	11,954.1480	0.00	STA. CP-109 1/2"
120	4,242.4495	11,871.3652	1,366.13	STA. CP-109A 1/2"
121	4,034.2731	11,635.9894	1,367.83	STA. CP-111 1/2"
122	3,819.0414	11,561.0889	1,370.22	STA. CP-112 1/2"
123	3,676.0082	11,443.9427	1,366.02	STA. CP-113 1/2"

07152-PRIMARY-CONTROL-NETWORK.CR5 11/24/08 15:14:04

Point	Northing	Easting	Elevation	Description
124	3,534.7625	11,266.4190	1,355.31	BRASS DISK-13
125	3,281.5099	11,444.3015	1,332.23	BRASS DISK REF-C
126	3,178.7959	11,459.6270	0.00	STA. CP-116 1/2"
127	3,458.1078	11,490.6459	1,305.66	STA. CP-117 1/2"
128	3,543.2240	11,723.2988	1,290.02	STA. CP-118 1/2"
129	3,397.0600	11,909.2576	1,275.50	STA. CP-119 1/2"
130	3,029.7139	11,753.3495	1,263.07	STA. CP-120 1/2"
131	2,787.5433	11,591.7886	1,245.99	BRASS DISK REF-D
132	2,594.2401	11,011.8383	1,208.95	BRASS DISK REF-E
133	2,638.6026	10,825.8704	0.00	STA. CP-124 1/2"
134	2,549.4865	10,505.6090	1,178.83	STA. CP-125 1/2"
135	2,447.1313	10,407.6842	0.00	STA. CP-126 1/2"
136	2,268.7832	10,354.2559	1,163.42	STA. CP-127 1/2"
137	2,090.4769	10,145.6854	0.00	STA. CP-128 1/2"
138	1,976.3138	10,159.0691	1,136.42	BRASS DISK-14
139	2,041.7944	10,511.5923	1,109.82	STA. CP-131 1/2"
140	2,283.5679	10,651.7414	1,095.54	STA. CP-132 1/2"
141	2,165.8473	11,229.1615	1,060.07	STA. CP-133 1/2"
142	1,997.3213	11,303.7612	1,049.70	STA. CP-134 1/2"
143	1,816.4792	11,264.8497	1,039.44	STA. CP-135 1/2"
144	1,605.8358	11,152.1673	1,027.43	STA. CP-136 1/2"
145	1,861.0386	11,211.7238	1,017.21	STA. CP-137 1/2"
146	1,950.8423	11,156.4347	1,013.89	STA. CP-138 1/2"
147	1,777.0875	10,990.9077	0.00	STA. CP-139 1/2"
148	1,844.6754	10,837.4188	976.96	STA. CP-140 Y-CU
149	1,594.2831	10,290.9738	0.00	STA. CP-142 1/2"
150	1,590.1880	10,625.8678	916.36	STA. CP-143 1/2"
151	1,165.9318	10,714.7515	886.30	STA. CP-144 Y-CU
152	845.5521	10,347.6645	851.84	STA. CP-145 1/2"
153	571.0522	10,041.6918	822.78	BRASS DISK-17
154	368.4435	9,525.2665	787.36	STA. CP-148 1/2"
155	58.8063	9,215.4853	0.00	STA. CP-149 1/2"
156	-305.9016	8,911.9031	729.05	STA. CP-150 1/2"
157	-701.6659	8,510.5022	695.65	STA. LOOKOUT MON
158	-738.9441	8,368.2809	688.02	BRASS DISK-18
159	-600.2751	8,164.3740	676.00	STA. CP-152 1/2"
160	-476.5252	8,060.1222	666.03	STA. CP-153 Y-CU
161	-273.1507	7,795.2447	646.08	STA. CP-154 Y-CU
162	-106.5272	7,618.6229	631.86	STA. CP-155 Y-CU
163	199.9106	7,706.0449	613.70	STA. CP-156 1/2"
164	833.2662	8,109.7252	570.55	STA. CP-157 Y-CU
165	1,068.7803	8,202.1761	558.21	BRASS DISK-19
166	898.6257	8,035.4271	531.20	STA. CP-159 1/2"
167	635.2657	7,832.8531	512.28	STA. CP-160 1/2"
168	236.3941	7,436.8809	477.69	BRASS DISK-20
169	461.1896	8,978.5371	0.00	ROUND TOP
170	-6,413.8223	9,574.6604	0.00	GPS 10
171	1,647.7282	11,168.8226	1,028.43	BRASS DISK-15
172	1,573.1399	10,383.4305	934.18	BRASS DISK-16
173	6,744.5479	10,485.3462	1,528.15	BRASS DISK-9

TRUE NORTH
NOT TO SCALE



TANTALUS-ROUND TOP DRIVE
TRAVERSE MAP
NOT TO SCALE
NOVEMBER 24, 2008

STATUS REPORT

Maximum liability limited to
\$3,500.00

This report (and any revisions thereto) is issued solely for the convenience of the titleholder, the titleholder's agent, counsel, purchaser or mortgagee, or the person ordering it.

SCHEDULE A

Title Guaranty of Hawaii, Incorporated, hereby reports that, subject to those matters set forth in Schedule "B" hereof, the title to the estate or interest to the land described in Schedule "C" hereof is vested in:

KAREN CALDWELL PERKINS,
Trustee under that certain unrecorded
Karen Caldwell Perkins Revocable Living
Trust Agreement dated July 14, 1980,
with full powers to sell, mortgage, lease or
otherwise deal with the land,
as to an undivided 1/4 interest,
THOMAS DUNN PERKINS,
Trustee under that certain unrecorded
Thomas Dunn Perkins Revocable Living
Trust Agreement dated July 14, 1980,
with full powers to sell, mortgage, lease or
otherwise deal with the land,
as to an undivided 1/4 interest,
and
ROBERT B. MARCHANT,
Trustee under that certain unrecorded
Robert B. Marchant Revocable Living
Trust Agreement dated April 12, 1983,
with full powers to sell, mortgage, lease or
otherwise deal with the land,
as to an undivided 2/4 interest,
as Fee Owner

SCHEDULE A CONTINUED

This report is dated as of September 24, 2008 at 8:00 a.m.

Inquiries concerning this report
should be directed to

EDISON CARIAGA.

Email ecariaga@tghawaii.com

Fax (808) 521-0210

Telephone (808) 533-5855.

Refer to Order No. 200844613.

**SCHEDULE B
EXCEPTIONS**

1. Real Property Taxes, if any, that may be due and owing.

Tax Key: (1) 2-5-012-003 Area Assessed: 1.960 Acres

2. Exception and reservation for an exclusive easement to use, occupy and enjoy, being more particularly described as follows:

Beginning at the southeast corner of this piece of land and on the northerly side of Tantalus Drive, the coordinates of said point of beginning referred to Government Survey Triangulation Station "PUNCHBOWL" being 6,953.09 feet north and 10,129.54 feet east, and running by true azimuths measured clockwise from true South:

- | | | | |
|----|----------|--------|--|
| 1. | 72° 10' | 183.80 | feet along the northerly side of Tantalus Drive; |
| 2. | 94° 15' | 86.00 | feet along the northerly side of Tantalus Drive; |
| 3. | 108° 52' | 64.30 | feet along the northerly side of Tantalus Drive; |
| 4. | 232° 38' | 356.20 | feet along R. P. 8186, L. C. Aw. 11215, Apana 2 to Kealiihonui along the land of Kalawahine; |
| 5. | 322° 38' | 92.00 | feet; |
| 6. | 8° 39' | 115.25 | feet to the point of beginning and containing an area of 0.956 acres, more or less. |

3. Exception and reservation for an exclusive easement to use, occupy and enjoy, being more particularly described as follows:

SCHEDULE B CONTINUED

Beginning at the south corner of this piece of land, and on the northerly side of Tantalus Drive, the coordinates of said point of beginning referred to Government Survey Triangulation Station "PUNCHBOWL" being 6,953.09 feet north and 10,129.54 feet east, and running by true azimuths measured clockwise from South:

1. 188° 39' 115.25 feet;
2. 142° 38' 92.00 feet;
3. 232° 38' 253.00 feet along R. P. 8186, L. C. Aw. 11215, Apana 2 to Kealiihonui along the land of Kalawahine;
4. 341° 40' 188.00 feet;
5. 51° 42' 247.30 feet along the northerly side of Tantalus Drive;
6. 72° 10' 29.00 feet along the northerly side of Tantalus Drive to the point of beginning and containing an area of 1.004 acres, more or less.

4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments or any other matters which a correct survey or archaeological study would disclose.

5. The terms and provisions contained in the following:

INSTRUMENT : DECLARATION OF RESTRICTIVE COVENANTS

DATED : September 7, 1989

RECORDED : Liber 23623 Page 315

6. Encroachments by Tantalus Drive an adjoining public highway.

SCHEDULE B CONTINUED

7. MORTGAGE AND FINANCING STATEMENT

MORTGAGOR : MARY KAREN CALDWELL PERKINS, also known as KAREN CALDWELL PERKINS, Trustee under that certain unrecorded Karen Caldwell Perkins Revocable Living Trust Agreement dated July 14, 1980, THOMAS DUNN PERKINS, Trustee under that certain unrecorded Thomas Dunn Perkins Revocable Living Trust Agreement dated July 14, 1980, and ROBERT B. MARCHANT, Trustee under that certain unrecorded Robert B. Marchant Revocable Living Trust Agreement dated April 12, 1983

MORTGAGEE : FIRST HAWAIIAN BANK

DATED : June 1, 1994

FILED : Land Court Document No.

RECORDED : Document No. 94-094411

AMOUNT : Equity FirstLine Agreement, a principal sum not to exceed \$150,000.00

END OF SCHEDULE B

SCHEDULE C

All of that certain parcel of land (being all of the land(s) described in and covered by Land Patent Grant Number 4589 to Mary E. Foster) situate, lying and being at Makiki, Honolulu, City and County of Honolulu, State of Hawaii, being LOT 1-B of the "TANTALUS HEIGHTS", and thus bounded and described:

Beginning at a pipe at the north corner of this parcel of land, the coordinates of said point of beginning referred to Government Survey Triangulation Station "PUOWAINA" being 7,293.70 feet by azimuths measured clockwise from true South:

1.	341°	40'	188.00	feet along Government land to a pipe;
2.	51°	42'	247.30	feet along the north side of Tantalus Drive to a spike;
3.	72°	10'	212.80	feet along the north side of 20-Ft. Right-of-Way to a pipe;
4.	94°	15'	86.00	feet along the north side of 20-Ft. Right-of-Way to an iron pin;
5.	10°	52'	64.30	feet along the north side of 20-Ft. Right-of-Way to a pipe;
6.	232°	38'	609.20	feet along the boundary of Kalawahine to the point of beginning and containing an area of 1.96 acres, more or less.

SCHEDULE C CONTINUED

Said above described parcel of land having been acquired as follows:

1. By KAREN CALDWELL PERKINS, Trustee under that certain unrecorded Karen Caldwell Perkins Revocable Living Trust Agreement dated July 14, 1980, as to an undivided 1/4 interest, by DEED of THOMAS D. PERKINS and KAREN C. PERKINS, husband and wife, dated July 14, 1980, recorded in Liber 14915 at Page 739;
2. By THOMAS DUNN PERKINS, Trustee under that certain unrecorded Thomas Dunn Perkins Revocable Living Trust Agreement dated July 14, 1980, as to an undivided 1/4 interest, by DEED of THOMAS D. PERKINS and KAREN C. PERKINS, husband and wife, dated July 14, 1980, recorded in Liber 14915 at Page 744; and
3. By ROBERT B. MARCHANT, Trustee under that certain unrecorded Robert B. Marchant Revocable Living Trust Agreement dated April 12, 1983, as to an undivided 1/2 interest, by the following Deeds:
 - (A) By DEED of ROBERT B. MARCHANT and JEAN C. MARCHANT, husband and wife, dated April 12, 1983, recorded in Liber 17029 at Page 269; and
 - (B) By DEED of JEAN C. MARCHANT, Trustee under that certain unrecorded Jean C. Marchant Revocable Living Trust Agreement dated April 12, 1983, recorded in Liber 19635 at Page 330.

END OF SCHEDULE C

GENERAL NOTES

1. There is hereby omitted from any covenants, conditions and reservations contained herein any covenant or restriction based on race, color, religion, sex, sexual orientation, familial status, marital status, disability, handicap, national origin, ancestry, or source of income, as set forth in applicable state or federal laws, except to the extent that said covenant or restriction is permitted by applicable law. Lawful restrictions under state or federal law on the age of occupants in senior housing or housing for older persons shall not be construed as restrictions based on familial status.

GUIDELINES FOR THE ISSUANCE OF INSURANCE

- A. Taxes shown in Schedule B are as of the date such information is available from the taxing authority. Evidence of payment of all taxes and assessments subsequent to such date must be provided prior to recordation.
 - B. Evidence of authority regarding the execution of all documents pertaining to the transaction is required prior to recordation. This includes corporate resolutions, copies of partnership agreements, powers of attorney and trust instruments.
 - C. If an entity (corporation, partnership, limited liability company, etc.) is not registered in Hawaii, evidence of its formation and existence under the laws where such entity is formed must be presented prior to recordation.
 - D. If the transaction involves a construction loan, the following is required:
 - (1) a letter confirming that there is no construction prior to recordation; or
 - (2) if there is such construction, appropriate indemnity agreements, financial statements and other relevant information from the owner, developer, general contractor and major sub-contractors must be submitted to the Title Company for approval at least one week prior to the anticipated date of recordation.
- Forms are available upon request from Title Guaranty of Hawaii.
- E. Chapter 669, Hawaii Revised Statutes, sets forth acceptable tolerances for discrepancies in structures or improvements relative to private property boundaries for various classes of real property. If your survey map shows a position discrepancy that falls within the tolerances of Chapter 669, call your title officer as affirmative coverage may be available to insured lenders.
 - F. The right is reserved to make additional exceptions and/or requirements upon examination of all documents submitted in connection with this transaction.
 - G. If a policy of title insurance is issued, it will exclude from coverage all matters set forth in Schedule B of this report and in the printed Exclusions from Coverage contained in an ALTA policy or in the Hawaii Standard Owner's Policy, as applicable. Different forms may have different exclusions and should be reviewed. Copies of the policy forms are available upon request from Title Guaranty of Hawaii or on our website at www.tghawaii.com.

DATE PRINTED: 9/29/2008

STATEMENT OF ASSESSED VALUES AND REAL PROPERTY TAXES DUE

NAME OF OWNER: PERKINS, THOMAS D TRUST
LEASED TO :

TAX MAP KEY

DIVISION ZONE SECTION PLAT PARCEL HPR NO.
(1) 2 5 012 003 0000

CLASS: 1 AREA ASSESSED: 1.960 AC

ASSESSED VALUES FOR CURRENT YEAR TAXES: 2008

This certifies that the records of this division show the assessed values and taxes on the property designated by Tax Key shown above are as follows:

BUILDING \$ 564,100
EXEMPTION \$ 240,000
NET VALUE \$ 324,100
LAND \$ 1,110,600
EXEMPTION \$ 0
NET VALUE \$ 1,110,600
TOTAL NET VALUE \$ 1,434,700

Installment (1 - due 8/20; 2 - due 2/20) Tax Info As Of - 7/02/2008

Tax Year	Installment	Tax Amount	Penalty Amount	Interest Amount	Other Amount	Total Amount	
2008	2	2,360.08				2,260.08	PENDING
2008	1	2,360.08				2,260.08	PENDING
2007	2	2,734.81				2,534.81	PAID
2007	1	2,734.82				2,534.82	PAID
2006	2	2,688.19				2,488.19	PAID
2006	1	2,688.20				2,588.20	PAID

Total Amount Due: 4,520.16

Penalty and Interest Computed to: 7/02/2008

STATUS REPORT

Maximum liability limited to
\$3,500.00

This report (and any revisions thereto) is issued solely for the convenience of the titleholder, the titleholder's agent, counsel, purchaser or mortgagee, or the person ordering it.

SCHEDULE A

Title Guaranty of Hawaii, Incorporated, hereby reports that, subject to those matters set forth in Schedule "B" hereof, the title to the estate or interest to the land described in Schedule "C" hereof is vested in:

CAROLYN CARLEY and
LEE A. WINDELER,
Trustee or their Successors in Trust,
under the Carolyn Carley and
Lee A. Windeler Living Trust,
dated November 30, 2001,
with full powers to sell, mortgage,
lease or otherwise deal with the land,
as Fee Owner

This report is dated as of September 24, 2008 at 8:00 a.m.

Inquiries concerning this report
should be directed to
PATRICIA AHN.
Email pahn@tghawaii.com
Fax (808) 521-0210
Telephone (808) 521-0256.
Refer to Order No. 200844615.

**SCHEDULE B
EXCEPTIONS**

1. Real Property Taxes, if any, that may be due and owing.

Tax Key: (1) 2-5-013-001 Area Assessed: 1.520 acres

2. REAL PROPERTY MORTGAGE AND FINANCING STATEMENT

LOAN/ACCOUNT NO. 1425792

MORTGAGOR : CAROLYN CARLEY and LEE A. WINDELER, Trustees or
their Successors in Trust, under the Carolyn Carley
and Lee A. Windeler Living Trust dated November 30,
2001

MORTGAGEE : MORTGAGE ELECTRONIC REGISTRATION SYSTEMS, INC.,
solely as nominee for FIRST HAWAIIAN BANK, a Hawaii
corporation

DATED : September 19, 2003
RECORDED : Document No. 2003-206851
AMOUNT : \$255,000.00

3. MORTGAGE

MORTGAGOR : CAROLYN CARLEY and LEE A. WINDELER, Trustees or
their Successors in Trust, under the Carolyn Carley
and Lee A. Windeler Living Trust, dated November
30, 2001

MORTGAGEE : FIRST HAWAIIAN BANK, a Hawaii corporation

DATED : July 22, 2004
RECORDED : Document No. 2004-152680
AMOUNT : Revolving Line of Credit Agreement, up to a maximum
amount of \$150,000.00

END OF SCHEDULE B

SCHEDULE C

All of that certain parcel of land (being all of the land(s) described in and covered by Land Patent Grant Number 4425 to J. G. Rothwell) situate, lying and being on Tantalus, City and County of Honolulu, State of Hawaii, being LOT 4 and thus bounded and described:

Beginning at the west corner of this lot at a point on the north side of Tantalus road Reservation from which Government Survey Triangulation Station "TANTALUS" bears north 22° 10' west true 580 feet, and running by true bearings as shown on Government Survey Registered Map No. 1968:

North	10°	15'	East	186 feet along Government Land;
North	88°	40'	East	155 feet along Government Land;
South	78°	35'	East	172 feet along Government Land to road reservation, thence along road reservation on a curved line, the direct bearing and distance being:
South	37°	15'	West	265 feet, thence
South	17°	30'	West	152 feet along road reservation;
North	9°	30'	West	80-1/2 feet along road reservation;
North	51°	00'	West	70 feet along road reservation;
North	46°	10'	West	113 feet along road reservation to the initial point, containing an area of 1.52 acres, more or less.

SCHEDULE C CONTINUED

BEING THE PREMISES ACQUIRED BY LIMITED WARRANTY DEED

GRANTOR : CAROLYN CARLEY, wife of Lee A. Windeler and LEE A. WINDELER, husband of Carolyn Carley

GRANTEE : CAROLYN CARLEY and LEE A. WINDELER, Trustees or their Successors in Trust, under the Carolyn Carley and Lee A. Windeler Living Trust, dated November 30, 2001, with full powers to sell, mortgage, lease or otherwise deal with the land

DATED : November 30, 2001

RECORDED : Document No. 2001-195866

END OF SCHEDULE C

GUIDELINES FOR THE ISSUANCE OF INSURANCE

- A. Taxes shown in Schedule B are as of the date such information is available from the taxing authority. Evidence of payment of all taxes and assessments subsequent to such date must be provided prior to recordation.
 - B. Evidence of authority regarding the execution of all documents pertaining to the transaction is required prior to recordation. This includes corporate resolutions, copies of partnership agreements, powers of attorney and trust instruments.
 - C. If an entity (corporation, partnership, limited liability company, etc.) is not registered in Hawaii, evidence of its formation and existence under the laws where such entity is formed must be presented prior to recordation.
 - D. If the transaction involves a construction loan, the following is required:
 - (1) a letter confirming that there is no construction prior to recordation; or
 - (2) if there is such construction, appropriate indemnity agreements, financial statements and other relevant information from the owner, developer, general contractor and major sub-contractors must be submitted to the Title Company for approval at least one week prior to the anticipated date of recordation.
- Forms are available upon request from Title Guaranty of Hawaii.
- E. Chapter 669, Hawaii Revised Statutes, sets forth acceptable tolerances for discrepancies in structures or improvements relative to private property boundaries for various classes of real property. If your survey map shows a position discrepancy that falls within the tolerances of Chapter 669, call your title officer as affirmative coverage may be available to insured lenders.
 - F. The right is reserved to make additional exceptions and/or requirements upon examination of all documents submitted in connection with this transaction.
 - G. If a policy of title insurance is issued, it will exclude from coverage all matters set forth in Schedule B of this report and in the printed Exclusions from Coverage contained in an ALTA policy or in the Hawaii Standard Owner's Policy, as applicable. Different forms may have different exclusions and should be reviewed. Copies of the policy forms are available upon request from Title Guaranty of Hawaii or on our website at www.tghawaii.com.

DATE PRINTED: 9/30/2008

STATEMENT OF ASSESSED VALUES AND REAL PROPERTY TAXES DUE

NAME OF OWNER: CAROLYN CARLEY & LEE A WINDELER TRU
LEASED TO :

TAX MAP KEY

DIVISION ZONE SECTION PLAT PARCEL HPR NO.
(1) 2 5 013 001 0000

CLASS: 1 AREA ASSESSED: 1.520 AC

ASSESSED VALUES FOR CURRENT YEAR TAXES: 2008

This certifies that the records of this division show the assessed values and taxes on the property designated by Tax Key shown above are as follows:

BUILDING	\$	142,500
EXEMPTION	\$	80,000
NET VALUE	\$	62,500
LAND	\$	802,500
EXEMPTION	\$	0
NET VALUE	\$	802,500
TOTAL NET VALUE	\$	865,000

Installment (1 - due 8/20; 2 - due 2/20) Tax Info As Of - 7/02/2008

Tax Year	Installment	Tax Amount	Penalty Amount	Interest Amount	Other Amount	Total Amount	
2008	2	1,422.93				1,372.93	PENDING
2008	1	1,422.93				1,372.93	PENDING
2007	2	2,205.94				2,105.94	PAID
2007	1	2,205.95				2,105.95	PAID
2006	2	3,383.75				3,283.75	PAID
2006	1	3,383.76				3,283.76	PAID

Total Amount Due: 2,745.86

Penalty and Interest Computed to: 7/02/2008



CONTROLPOINT
Surveying, Inc.

November 3, 2008
Job No. 07152

**SUBJECT: 4050 Tantalus Drive – Boundary Study
Lot 4
Former Land Patent Grant 4425 to J. G. Rothwell
Tantalus, Honolulu, Oahu, Hawaii
TMK: (1) 2-5-13: 01**

On November 2, 2008, a boundary survey was conducted on the above mentioned property. All of its boundary corners were looked for but none were found. Using the record ties (see attached description) referred from Government Survey Triangulation Station “Tantalus”, to each point, the owner, who accompanied the surveyors at the time of survey, based on his recollection concurred that the boundary corners were in those general areas. Each point was toned with a magnetic locator and dug for but no evidence of property corners were found. There was no fence or wall near the said points except along the driveway which zigzagged into the property. The owner/occupant also stated that the property has had the same owner since the 1950’s and no boundary survey was done.

Using these ties, the location was about where the homeowner was pointing. Since it checked out, we conclude since there are no pins found, nor fences or walls located, we conclude that we will just hold the record ties for this parcel of land.

This report is a result of the survey done by the ControlPoint Surveying, Inc. survey crew.

Surveyed By: Rico D. Erolin, Cipriano Crisostomo and Ray Cruz.

ACT 131: OUR "ENCROACHMENT" LAW

SECTION 2. Chapter 669, Hawaii Revised Statutes, is amended by adding a new part II to be appropriately designated and to read as follows:

PART II. STRUCTURE POSITION DISCREPANCIES

669-A De minimus structure position discrepancies, defined. For the purposes of this part, "de minimus structure position discrepancy" means:

- (1) For commercial property and multi-unit residential property, 0.25 feet;
- (2) For all other residential property, 0.5 feet;
- (3) For agricultural and rural property 0.75 feet; and
- (4) For conservation property, 1.5 feet;

between the location of an improvement legally constructed along what was reasonably believed to be the boundary line and the actual location of the boundary line based on a modern survey.

669-B Consequences.

- (1) A de minimus structure position discrepancy shall not be considered an encroachment or a basis for a zoning violation;
- (2) No de minimus structure position discrepancy authorized under this part shall be considered as a basis for any claim of adverse possession of land. If the wall or other improvement that is affected by the discrepancy is removed or substantially damaged or destroyed, the replacement improvement shall be constructed to comply with the most recent survey available at the time of construction of the improvement;
- (3) Responsibility for maintenance and repair of an improvement within a de minimus structure position discrepancy shall be borne by the property owner who constructed the improvement, or the property owner's successor in interest; and
- (4) Liability for any claims for injuries or damages to persons or property arising out of, or in connection with an improvement, or the property owner's successor in interest.

669-C Restrictions as to owner of property. This part shall not apply to any de minimus structure position discrepancy on public lands, as defined in section 171-2, or to such encroaching improvements incident to shoreline boundaries. If real property subject to this section is owned by a county, any improvement within a de minimus structure position discrepancy shall be removed at the expense of the property owner who constructed the improvement, or the property owner's successor in interest, upon notice, in accordance with the respective county procedures or ordinances.

SECTION 3. Chapter 669, Hawaii Revised Statutes, is amended by designating sections 669-1 to 669-8 as part I and inserting a title before section 669-1 to read as follows:

"PART I. GENERAL PROVISIONS"

SECTION 4. New statutory material is underscored.

SECTION 5. This Act shall apply to all structure position discrepancies in effect on its effective date without regard to when the facts or actions giving rise to the discrepancy occurred.

SECTION 6. In codifying the new part added to chapter 669, Hawaii Revised Statutes, by section 2 of this Act, the revisor of statutes shall substitute appropriate section numbers for the letters used in the designation of the new sections in this Act.

SECTION 7. This Act shall take effect upon its approval.