

DELAWDER COMMUNICATIONS, INC.

P.O. Box 1095
Ashburn, Virginia 20146-1095
(703) 299-9222

ENGINEERING REPORT

Santa Cruz Island, CA, Channel 257D FM Translator Application

ENGINEERING STATEMENT

Gold Coast Broadcasting, LLC ("Applicant") submits this Long-form Application that covers its pending Auction 83 Short-form Application for a new FM translator station at Santa Cruz Island, CA. The pending application file number is BNPFT-20030317GWG.

This filing includes a change from channel 258D back to channel 257D. This channel change is deemed a minor change pursuant to Section 74.1233(a) of the FCC Rules. The attached fill-in map (Figure EEA) includes a showing of contour overlap between the 60 dBu F50,50 contours of the initial short-form and here proposed long-form application facilities.

LPFM Preclusion Study Results for the herein proposed facility are provided in the separate Exhibit 1 (Section 1, Question 5 of the FCC Form 349, as directed by the FCC).

FILL-IN MAP

Figure EEA, attached, is a map showing that the FM translator's 54 dBu F50,50 contour is completely inside the 54 dBu F50,50 contour of KCAQ-FM (CP). The Applicant will agree to only licensing the 257D translator after the KCAQ(CP) has been licensed.

CHANNEL STUDY

Attached as Figure EE1 is a channel study for the proposed channel 251D facility. All required protections are met by contour non-overlap pursuant to Section 74.1204, with the exception of protection to KTYD, Santa Barbara, CA, 260B. KTYD is protected, as discussed below.

CONTOUR OVERLAP SHOWING

The service and interference contour distances that are listed on Figure EE1 use the worst-case (greatest) distance along any bearing for each facility, and also considers each protected station as omni-directional. No contour overlap using this worst-case test means no possible contour overlap when applying Section 73.313 methodology.

Figures EE2 and EE3, attached, show non-overlap (over land area) between the service contours of KXFM and KKLA-FM and the interference contours of the proposed channel 257D facility. All contours were determined pursuant to Section 73.313 of the FCC Rules using a USGS 30 arc-second terrain database at one-degree radial intervals.

PROTECTION TO KTYD

KTYD, Santa Barbara, CA, 260B, is third adjacent-channel to the proposed channel 251D facility and is located 52.0 kilometers (at 357 degrees True bearing) from the proposed 257D transmitter site. The 54 dBu F50,50 service contour extends beyond the 257D transmitter site. Using the well-established *Living Way Ministries* Methodology, no actual interference to any population is predicted to exist to KTYD.

Note that a rule waiver of Section 74.1204 for this second/third adjacent-channel protection using the well-established *Living Way Ministries* Methodology is respectfully requested if such a rule waiver is deemed necessary for protection to this station.

The F50,50 signal strength from KTYD at the proposed 257D transmitter site is 74.5 dBu (the “desired” signal). The second/third adjacent-channel protection of Section 74.1204 is an undesired-to-desired (“U/D”) dB signal strength ratio of 40:1. Therefore, predicted interference to KTYD from the proposed 257D facility is a signal of greater than or equal to 114.5 dBu.

The 114.5 dBu signal based on a free space field determination is predicted to extend out to 133 meters from the proposed 257D transmitter site. As shown by the attached aerial photograph of the proposed site (Figure EE4) is a mountaintop communications site; and *there is no population located within the 114.5 dBu interfering contour distance of 133 meters*. Therefore, pursuant to Section 74.1204(d) of the FCC Rules, KTYD is adequately protected by the proposed facility.

AERIAL PHOTO

Figure EE4, attached, is an aerial photo of the proposed transmitter site. There are no homes or other residences located within 133 meters of the proposed site.

SECTION 74.1204 CHANNEL STUDY

PROJECT: SANTA CRUZ ISLAND, CA, 257D FROM PROPOSED SITE

STUDY COORDINATES: N 34-00-09.0; W 119-38-51.5(N D-M-S; W D-M-S)

Call Docket	Channel FacilityID	Class Service	Frequency ERP	Status DA?	City HAAT	State RCAMSL	Country RCAGL	File Number
Latitude	Longitude			ASRN	Dist (km)	Dist (mi)	Azimuth	
Licensee/Permittee								

NEW 255 D FX 98.9 MHz APP SOLIMAR BEACH CA US BNPFT-20030317GXW
 - 143644 0.12 kW 0. m 46. m 46. m
 N 34 10 46.00 W 119 28 4.00 - 25.70 km 15.97 mi 40.04°
 GOLD COAST BROADCASTING LLC
Protected Contour Dist: 7.3 km Prop 257D Interf Contour Dist: <1.0 km
Result: 17.4 km CLEAR (WORST-CASE STUDY)
Interf Contour Dist: <1.0 km Prop 257D Service Contour Dist: 22.2 km
Result: 2.5 km CLEAR (WORST-CASE STUDY)

KXFM 256 B FM 99.1 MHz LIC SANTA MARIA CA US BLH-19910429KE
 - 5470 2.3 kW 581. m 1016. m 24. m
 N 34 54 37.00 W 120 11 8.00 - 112.18 km 69.70 mi 334.11°
 EDB SLO LICENSE LLC
Protected Contour Dist: 73.6 km Prop 257D Interf Contour Dist: 48.3 km
Result: -9.7 km SHORT (WORST-CASE STUDY); See Contour Non-overlap Showing

KKLA-FM 258 B FM 99.5 MHz LIC LOS ANGELES CA US BLH-20060829BEO
 - 48453 10. kW DA 902. m 1801. m 76. m
 N 34 13 26.00 W 118 3 44.00 1012244 148.32 km 92.16 mi 79.98°
 NEW INSPIRATION BROADCASTING CO., INC.
Protected Contour Dist: 128.7 km Prop 257D Interf Contour Dist: 48.3 km
Result: -28.7 km SHORT (WORST-CASE STUDY); See Contour Non-overlap Showing

KKLA-FM 258 B FM 99.5 MHz CP LOS ANGELES CA US BPH-20061023AFU
 - 48453 10. kW 902. m 1801. m 76. m
 N 34 13 26.00 W 118 3 44.00 1012244 148.32 km 92.16 mi 79.98°
 NEW INSPIRATION BROADCASTING CO., INC.
Protected Contour Dist: 128.7 km Prop 257D Interf Contour Dist: 48.3 km
Result: -28.7 km SHORT (WORST-CASE STUDY); See Contour Non-overlap Showing

NEW 258 D FX 99.5 MHz APP SANTA CRUZ ISLAND CA US BNPFT-20030317GWG
 - 143657 0.1 kW DA 0. m 448. m 9. m
 N 34 0 9.00 W 119 38 51.50 - 0.00 km 0.00 mi 0.00°
 GOLD COAST BROADCASTING LLC
NOTE: THIS IS THE AUCTION 83 SHORT-FORM APPLICATION THAT IS BEING COVERED BY THIS LONG-FORM APPLICATION

KTYD 260 B FM 99.9 MHz LIC SANTA BARBARA CA US BLH-19870331KP
 - 14528 34. kW 390. m 788. m 67. m
 N 34 28 15.00 W 119 40 33.00 - 52.01 km 32.32 mi 357.16°
 RINCON BROADCASTING LS LLC
NOTE: A SHOWING BASED ON THE LIVING WAY MINISTRIES METHODOLOGY TO THIS STATION IS INCLUDED WITH THIS APPLICATION THAT DEMONSTRATES PROTECTION TO THIS FACILITY.

Study Complete

FIGURE EE2

Santa Cruz Island, CA 257D Contour Non-Overlap Showing to KXFM

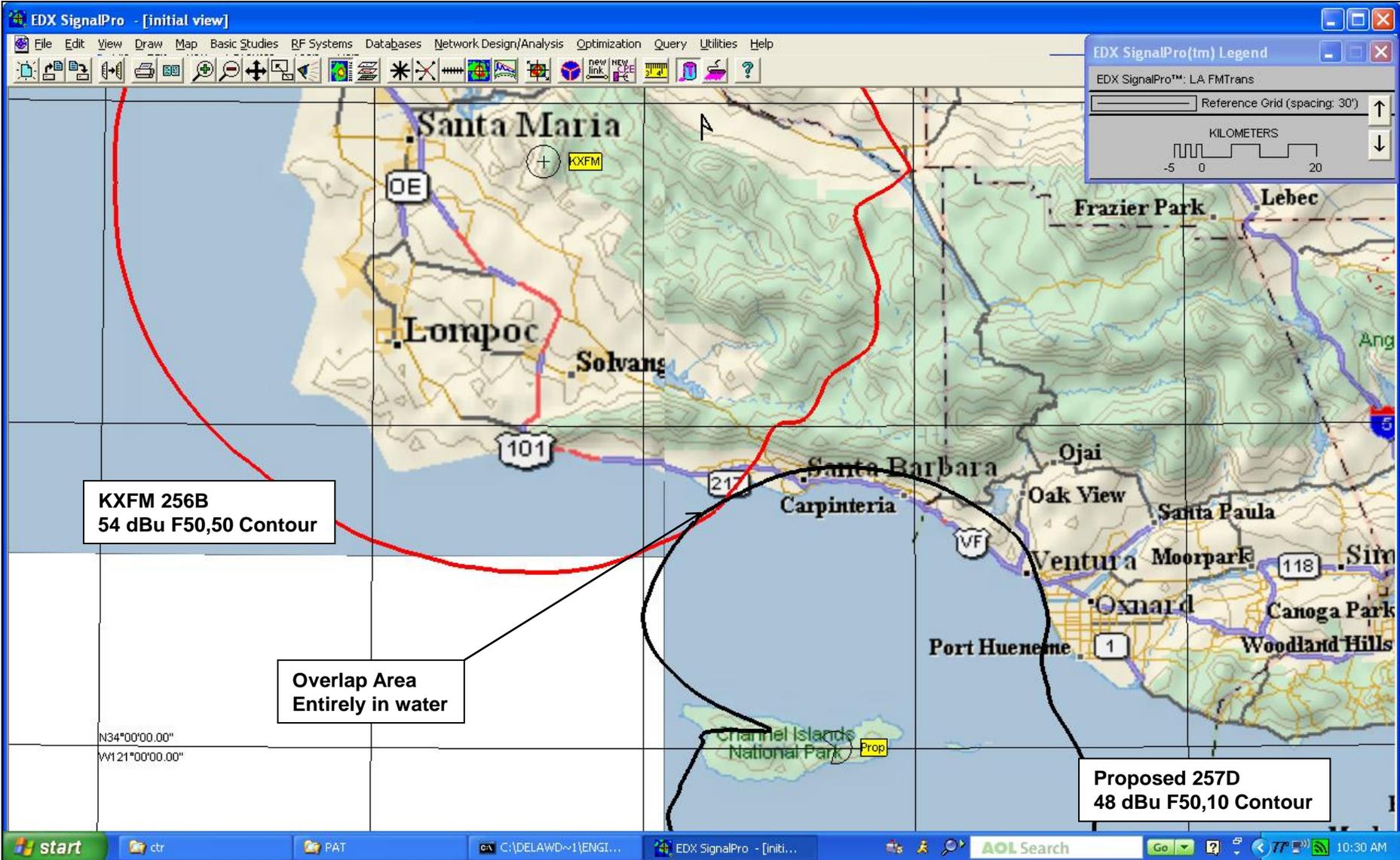


FIGURE EE3

Santa Cruz Island, CA 257D Contour Non-Overlap Showing to KKLA-FM

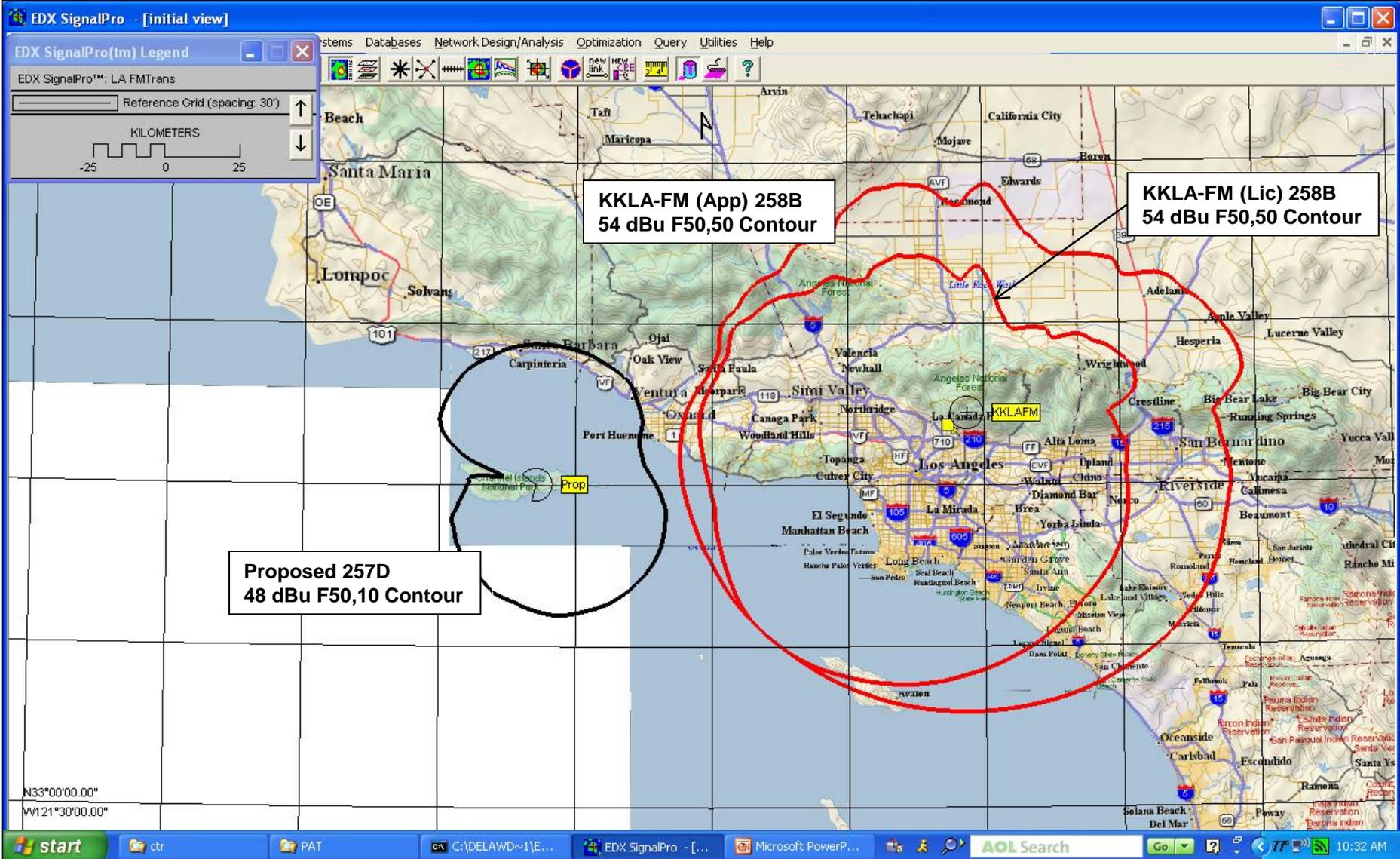
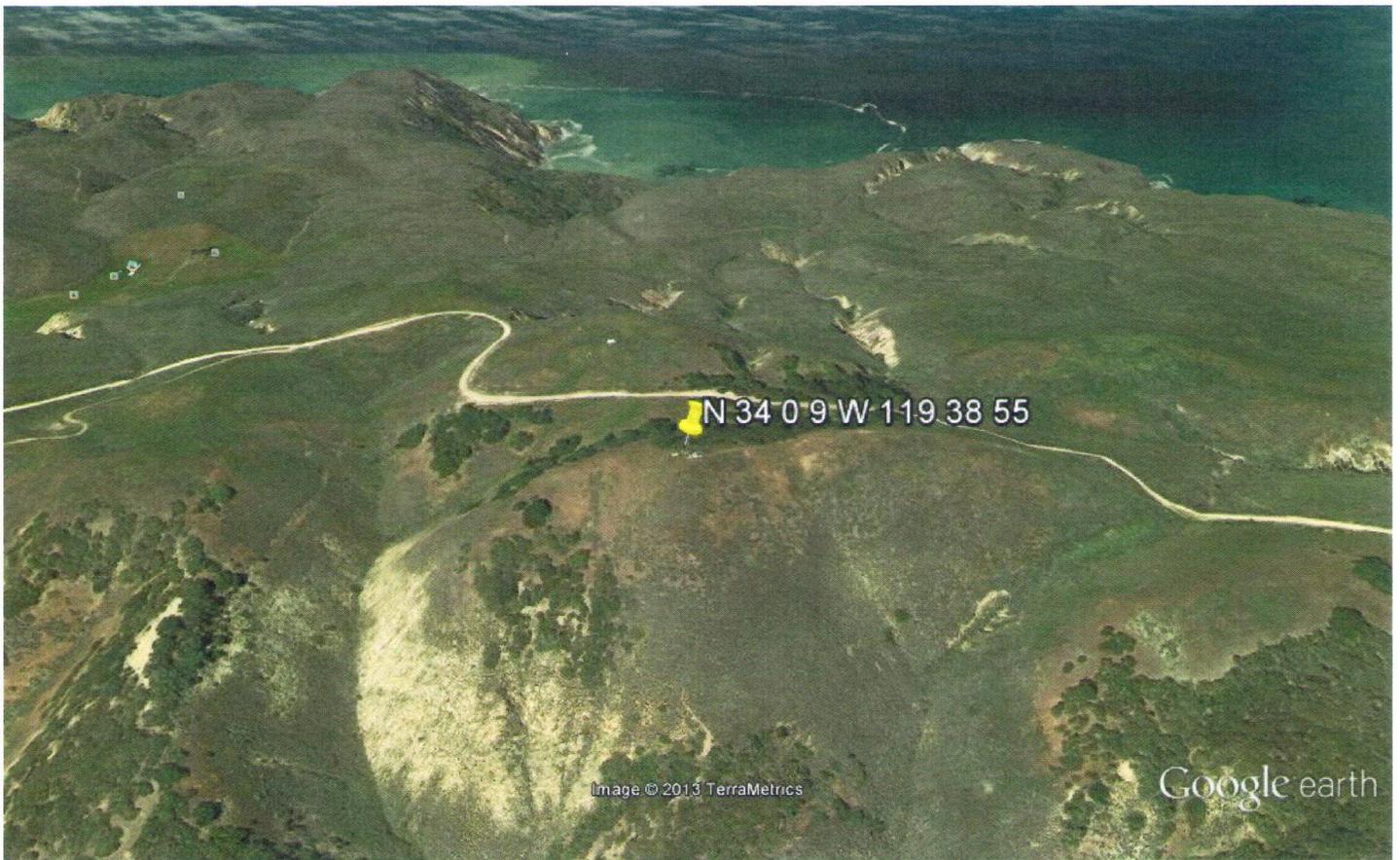


FIGURE EE4: AERIAL PHOTO OF PROPOSED SITE
SANTA CRUZ ISLAND, CA, 257D



Google earth

feet 1000
meters 300

