

Lambert Azimuthal Equal-Area

15'00" Graticule Spacing

CENTRAL MAP ORIGIN:

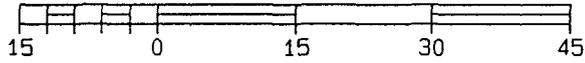
N LAT 35°25'36.00"

W LON 120°00'00.00"

Scale 1: 823,680

EXHIBIT E-11B  
INTERFERENCE STUDY BETWEEN  
PROPOSED FACILITY AND LICENSED  
OPERATION OF KSBY-TV CHANNEL 6  
Shepherd Communications, Inc.

KILOMETERS



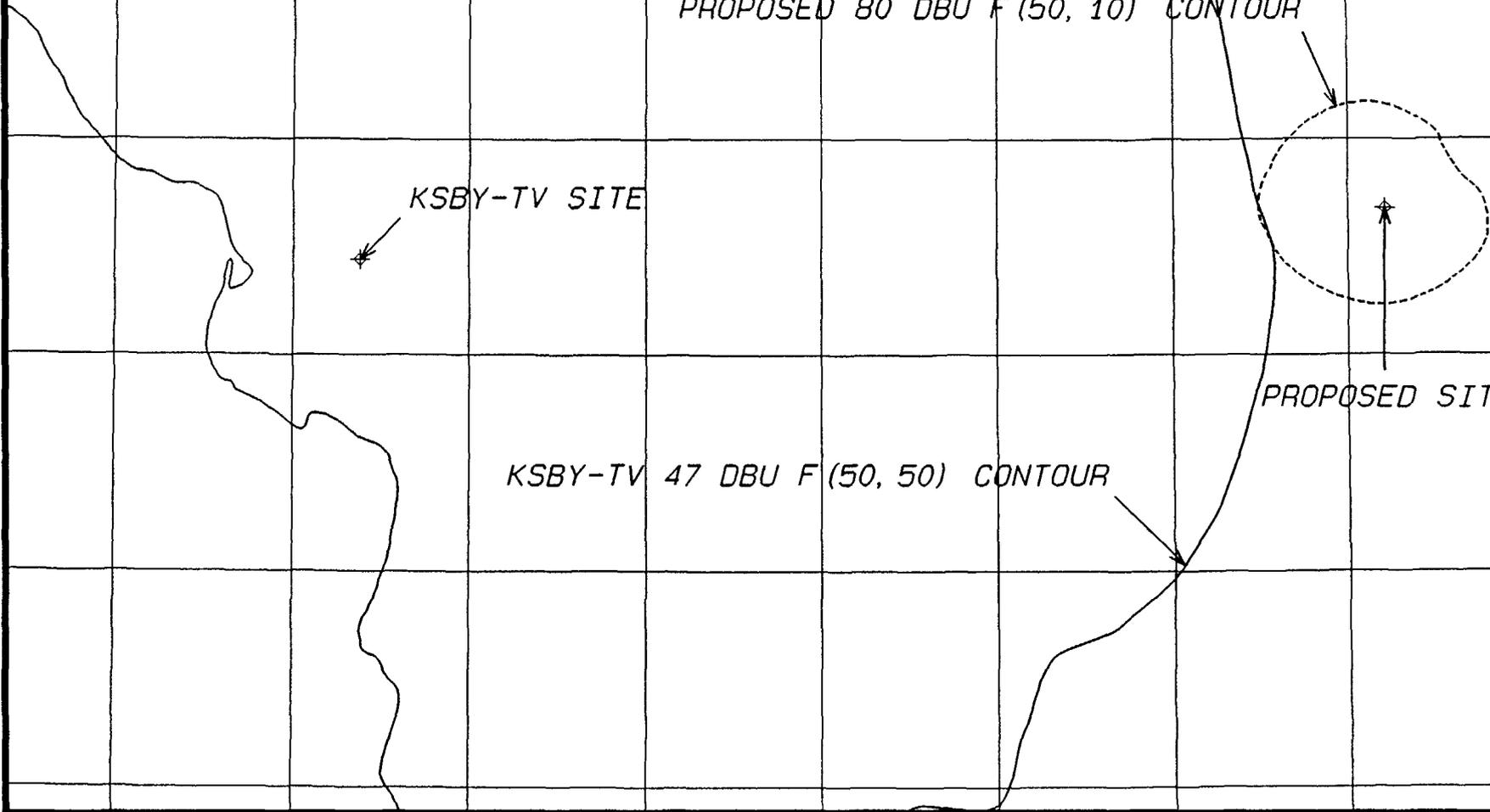
LAWRENCE L. MORTON ASSOCIATES  
Telecommunications Engineers  
Mesa Oaks, California

PROPOSED 80 DBU F (50, 10) CONTOUR

KSBY-TV SITE

PROPOSED SITE

KSBY-TV 47 DBU F (50, 50) CONTOUR



## EXHIBIT E-12

### DISCUSSION OF ENVIRONMENTAL CONSIDERATIONS

The applicant, Shepherd Communications, Inc., has obtained permission to situate an FM broadcast antenna on an existing supporting structure on a privately held parcel of land. The site is located 2.47 kilometers (1.53 miles) south of the center of Crome, California, and 11.15 kilometers (6.93 miles) southeast of the center of Shafter, California. The ground elevation of the site is 103.3 meters (339 feet) above mean sea level.

The existing supporting structure consists of a 115.1 meter (377.6 foot) guyed, 18-inch face, uniform cross-sectional steel tower supporting the existing KKBB(FM) FM antenna. The proposed antenna system consists of an Electronics Research, Inc., LP-6E-DA-SP six-bay circularly-polarized directional FM broadcast antenna. The total height of the tower and antenna will be 116.0 meters (380.6 feet) above ground, including top-mounted beacon. The transmitting equipment will be housed in a small concrete block building to be constructed near the base of the proposed tower.

The applicant will comply with environmental requirements of local, state and federal governmental agencies.

- o No underground cable or waveguide is proposed.
- o The total height of the tower and antenna system will not exceed 300 feet above an existing structure.
- o Human exposure to radio frequency radiation will not exceed the maximum level established by the American National Standards Institute (ANSI) based on predictions employing the vertical radiation characteristics of the proposed six-bay,  $\pi$ -spaced element antenna,
- o The property has not been officially designated as wilderness area, nor to the applicant's knowledge, is it under consideration for such designation.
- o The proposed site is not located in a floodplain,
- o The proposed site has not been locally or nationally recognized for its special scenic or recreational value.
- o The proposed site is not located in an officially designated wildlife preserve nor to the applicant's knowledge, is it pending consideration for such designation.

- o The property is not listed in the National Register of Historic Places nor to the applicant's knowledge, is it eligible for listing.
- o The proposed construction will not involve extensive change in the surface or contour of the land.
- o The proposed construction would not be classified as a Major Action as defined in Section 1.1305 in the Commission's Rules and Regulations.

**Lawrence L. Morton, P.E.**

**Consulting Telecommunications Engineers**

**October 20, 1989**

# SHEPHERD COMMUNICATIONS, INC.

ELEV SCALE: -500.0- 9500.0 Feet  
-152.4- 2895.6 Meters

ELEV RANGE: 80.0- 8600.0 Feet  
24.4- 2621.3 Meters

AVERAGE ELEV: 1817.7 Ft 554.0 Mtrs

LATITUDE RANGE: 34: 48: 30/ 36: 02: 00

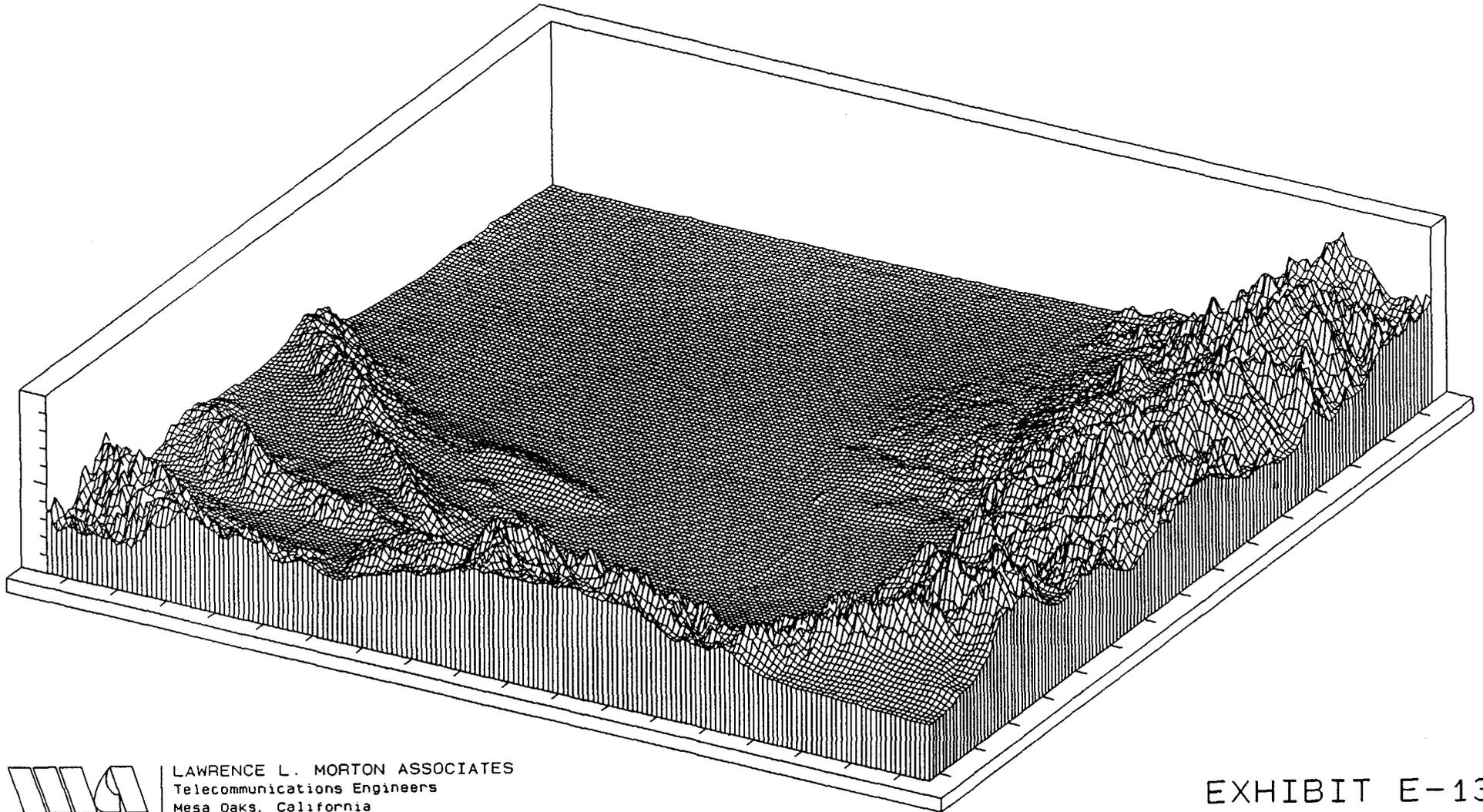
LONGITUDE RANGE: 118: 27: 00/119: 57: 00

LON SPAN: 84.6 Mi 136.2 Km

LAT SPAN: 84.4 Mi 135.9 Km

## AREA TOPOGRAPHY

68.94 Miles/Degree Latitude  
56.43 Miles/Degree Longitude



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Mesa Oaks, California

EXHIBIT E-13

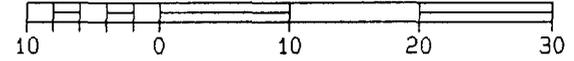
Lambert Azimuthal Equal-Area

15'00" Graticule Spacing

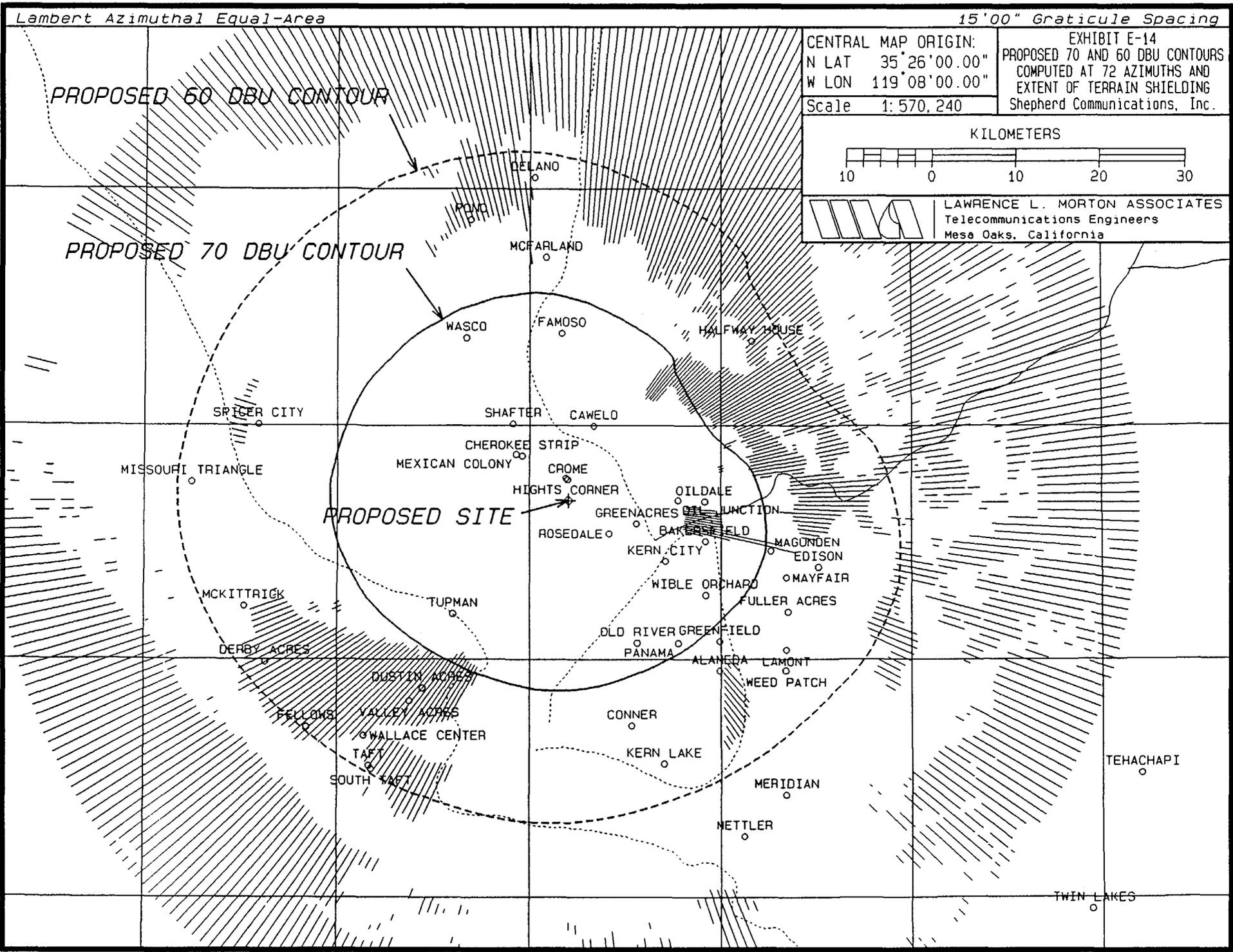
CENTRAL MAP ORIGIN:  
N LAT 35°26'00.00"  
W LON 119°08'00.00"  
Scale 1:570,240

EXHIBIT E-14  
PROPOSED 70 AND 60 DBU CONTOURS  
COMPUTED AT 72 AZIMUTHS AND  
EXTENT OF TERRAIN SHIELDING  
Shepherd Communications, Inc.

KILOMETERS



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Telecommunications Engineers  
Mesa Oaks, California



PROPOSED 60 DBU CONTOUR

PROPOSED 70 DBU CONTOUR

PROPOSED SITE

DELANO

POND

MCFARLAND

WASCO

FAMOSO

HALFWAY HOUSE

SPICER CITY

SHAFTER

CAWELD

MISSOURI TRIANGLE

CHEROKEE STRIP  
MEXICAN COLONY

CROME

HIGHTS CORNER

OILDALE

GREENACRES

ST. JUNCTION

ROSEDALE

BAKERFIELD

KERN CITY

MAGUNDEN

EDISON

MCKITTRICK

WIBLE ORCHARD

OMAYFAIR

DERBY ACRES

TUPMAN

FULLER ACRES

OLD RIVER GREENFIELD

PANAMA

ALANEDA

LAMONT

WEED PATCH

FELLOWS

VALLEY ACRES

CONNER

WALLACE CENTER

KERN LAKE

TAFT

SOUTH TAFT

MERIDIAN

TEHACHAPI

NETTLER

TWIN LAKES

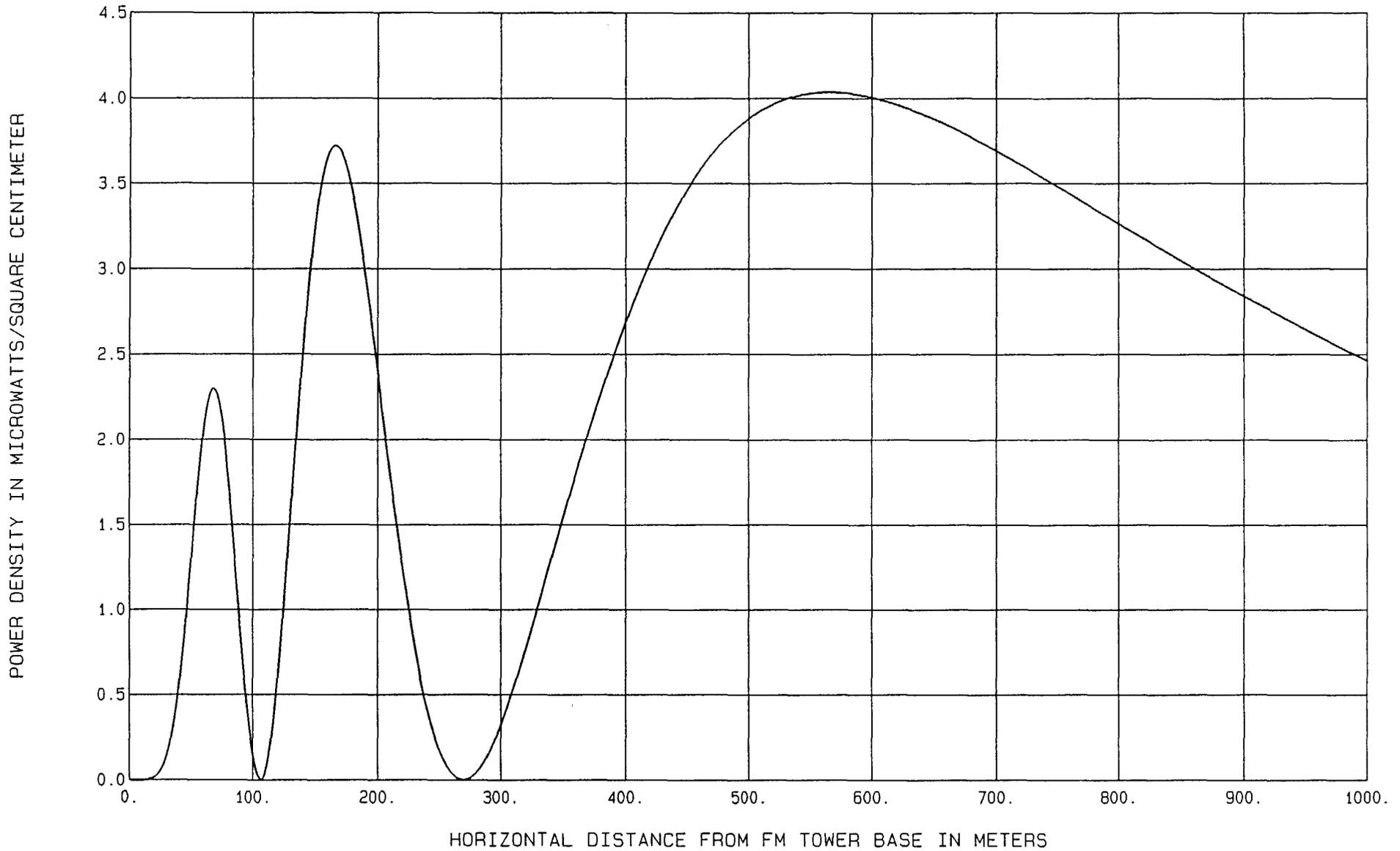


EXHIBIT E-15A  
 TOTAL H AND V POWER DENSITY TWO METERS ABOVE GROUND  
 PROPOSED FACILITY ACTING ALONE

SHEPHERD COMMUNICATIONS, INC.


 LAWRENCE L. MORTON ASSOCIATES  
 Telecommunications Engineers  
 Mesa Oaks, California

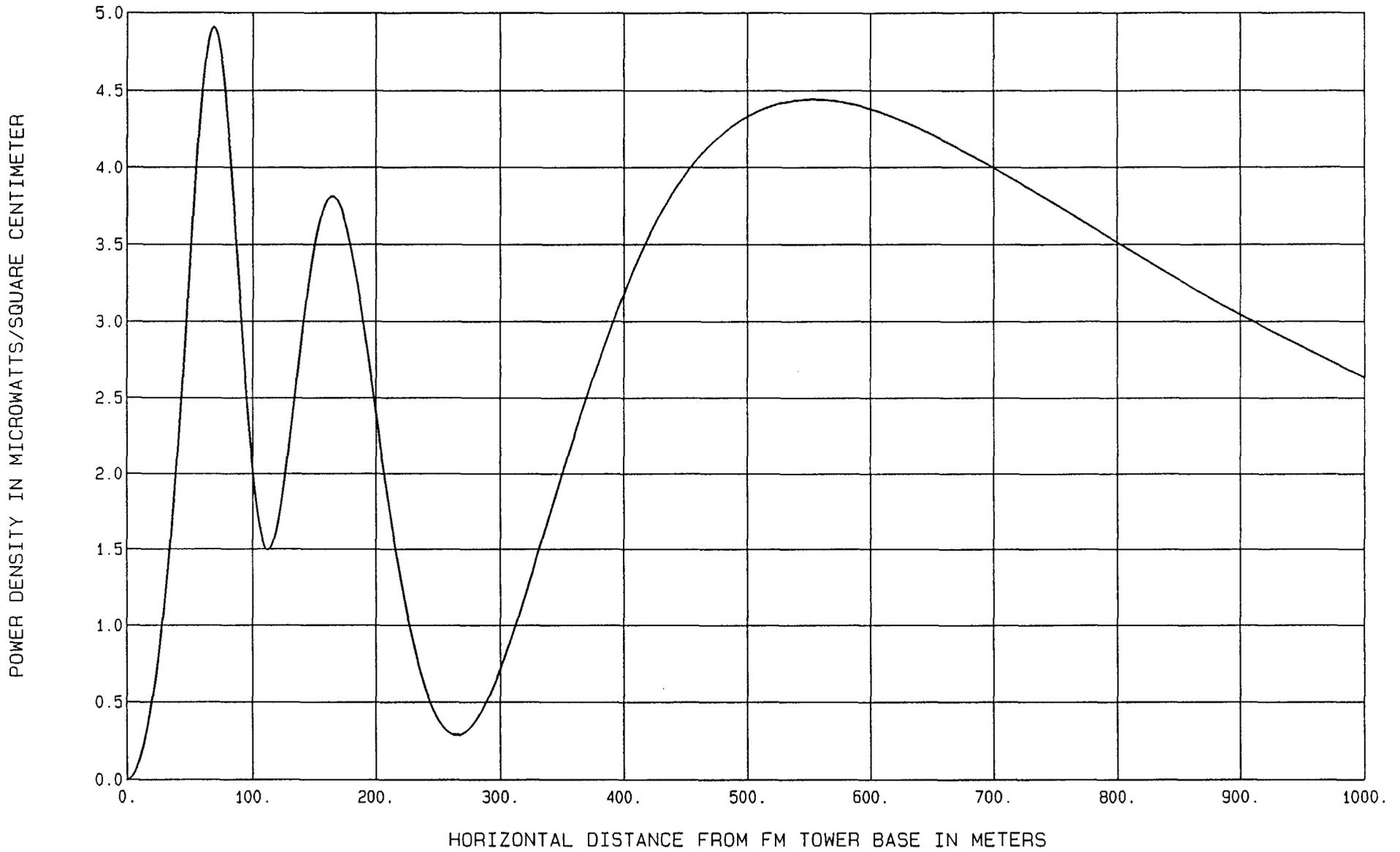


EXHIBIT E-15B

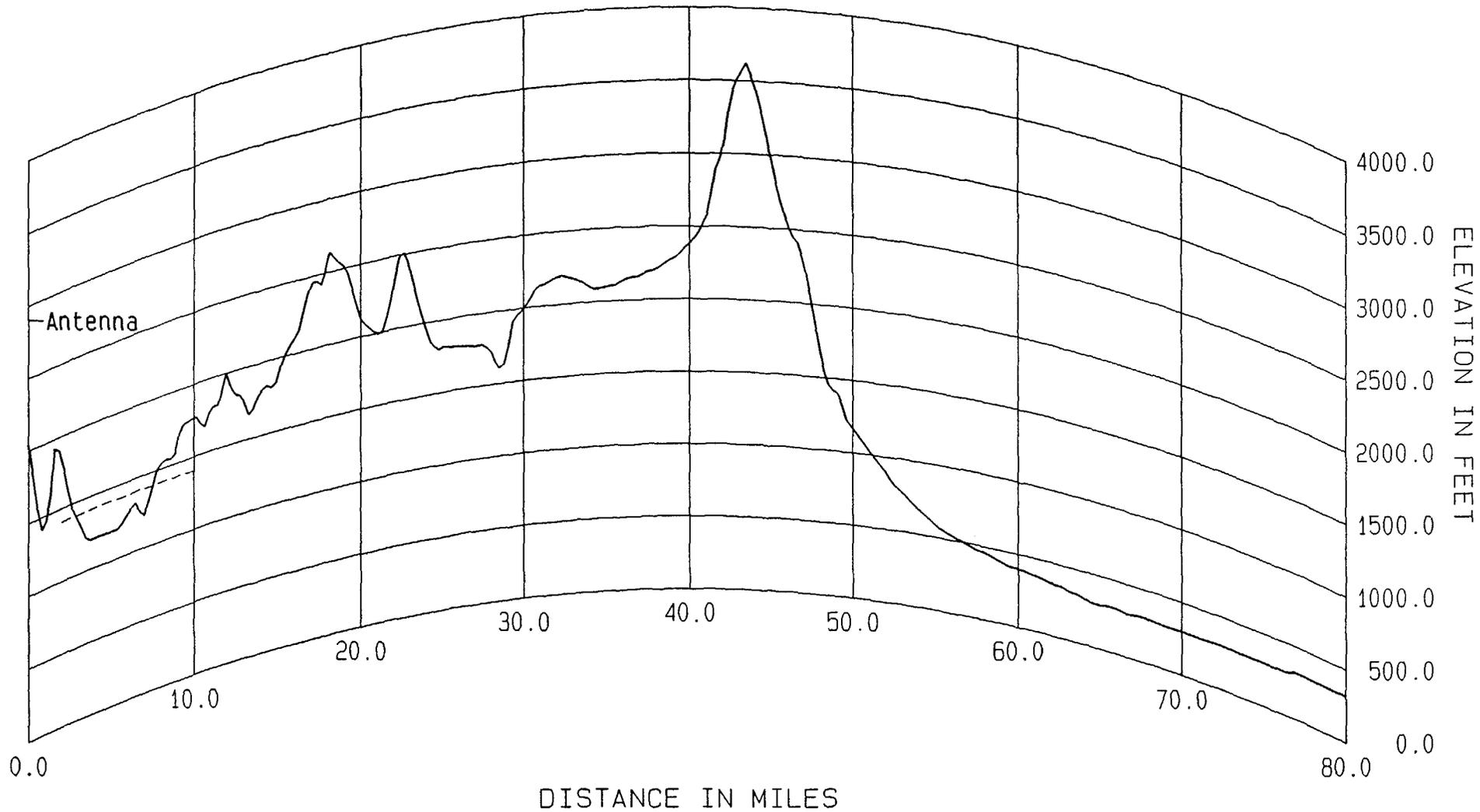
TOTAL H AND V POWER DENSITY TWO METERS ABOVE GROUND  
 COMPOSITE OF KKBB AND PROPOSED FACILITY ACTING TOGETHER

SHEPHERD COMMUNICATIONS, INC.



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 Telecommunications Engineers  
 Mesa Oaks, California

Average Radial Elevation = 1407.4 Feet AMSL  
Antenna Radiation Center = 2903.5 Feet AMSL



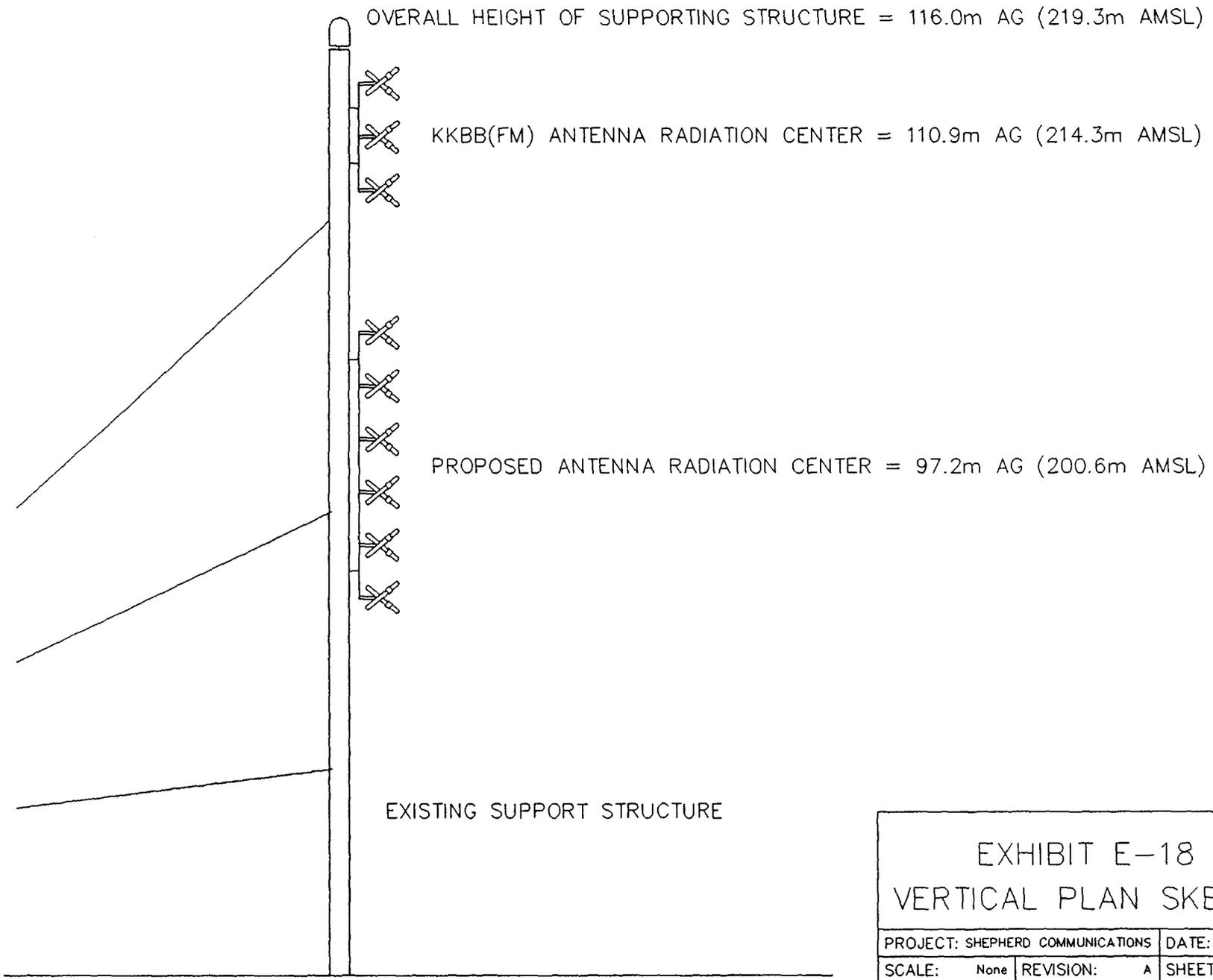
N 87.6° E Radial  
KSBY-TV CHANNEL 6

DISTANCE IN MILES  
EXHIBIT E-16



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Telecommunications Engineers  
Mesa Oaks, California





GROUND ELEVATION = 103.3 METERS AMSL

EXHIBIT E-18		
VERTICAL PLAN SKETCH		
PROJECT: SHEPHERD COMMUNICATIONS	DATE: 12-OCT-89	
SCALE: None	REVISION: A	SHEET: 1 of 1
		LAWRENCE L. MORTON ASSOCIATES Telecommunications Engineers Mesa Oaks, California