

EXHIBIT 1  
FCC FORM 442  
ITEM 4a

FREQUENCIES

The frequency band requested is 225 MHz to 12,200 MHz inclusive, less 400-400.2, 608-614, 1030, 1400-1427, 2690-2700, and 4990-5000 MHz. A copy of this application has been sent to the eastern region of the FAA to coordinate the use of 1090, 1215-1400, 2700-2900, and 9000-9200 MHz.

This large amount of spectrum has been requested to enable the Westinghouse Antenna Pattern Test Range complex to serve the greatest range of potential customers possible, with a minimum of manpower costs and lead time. Antenna pattern measurements requiring higher radiated power levels will continue to operate under separate licenses.

EXHIBIT 2  
FCC FORM 442  
ITEM 5c

LOCATIONS

SITE 1	RIDGE RD MAIN BLDG (Engineering range source)	N39-11-05	W076-42-23
SITE 2	RIDGE RD ENGINEERING TOWER (500 meter ground range source)	N39-10-56	W076-42-03
SITE 3	BLUEBERRY HILL TOWER (1570 meter range source)	N39-10-56	W076-41-23

**EXHIBIT 3  
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**ANTENNAS**

The Ridge Rd antenna range has an assortment of source antennas from 12dB gain horns to 31dB gain parabolic dishes. The selection of source antenna varies with frequency, distance, and size of the antenna to be tested.

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TEST PROGRAM

The Westinghouse Antenna Pattern Test Range complex consists of a range control building with several 3-axis antenna positioners, a 500 meter ground range with 3 transmit sites and another positioner opposite the control building, and a 1570 meter range with a 33 meter tall transmit tower. (see map, page 2)

The antenna under evaluation is illuminated by an unmodulated rf source while positioned such that the boresight faces the source, and reference receive signal strength is taken. The antenna under evaluation is positioned at various angles of azimuth and elevation, with relative receive signal strength measurements taken as the antenna moves. This test method makes precise measurement of antenna gain patterns possible. This facility enables Westinghouse to evaluate new antenna design concepts, and to verify the performance of production units.

Westinghouse has been or is currently under contract with the FAA, US Army, Navy, and Air Force, Customs, DARPA, and various foreign military and civil aviation agencies to design, build, and/or test various advanced antennas. This license modification would expand the test capability of the range and allow most testing to begin with less lead time at lower cost. A grant of this application would also allow the cancellation of callsigns KA2XAD, KA2XGR, KG2XBF, KM2XCX, and KO2XBG.

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1"=1000'  
1997  
AA CON  
ZONING  
MAP

B W INTERNATIONAL  
AIRPORT

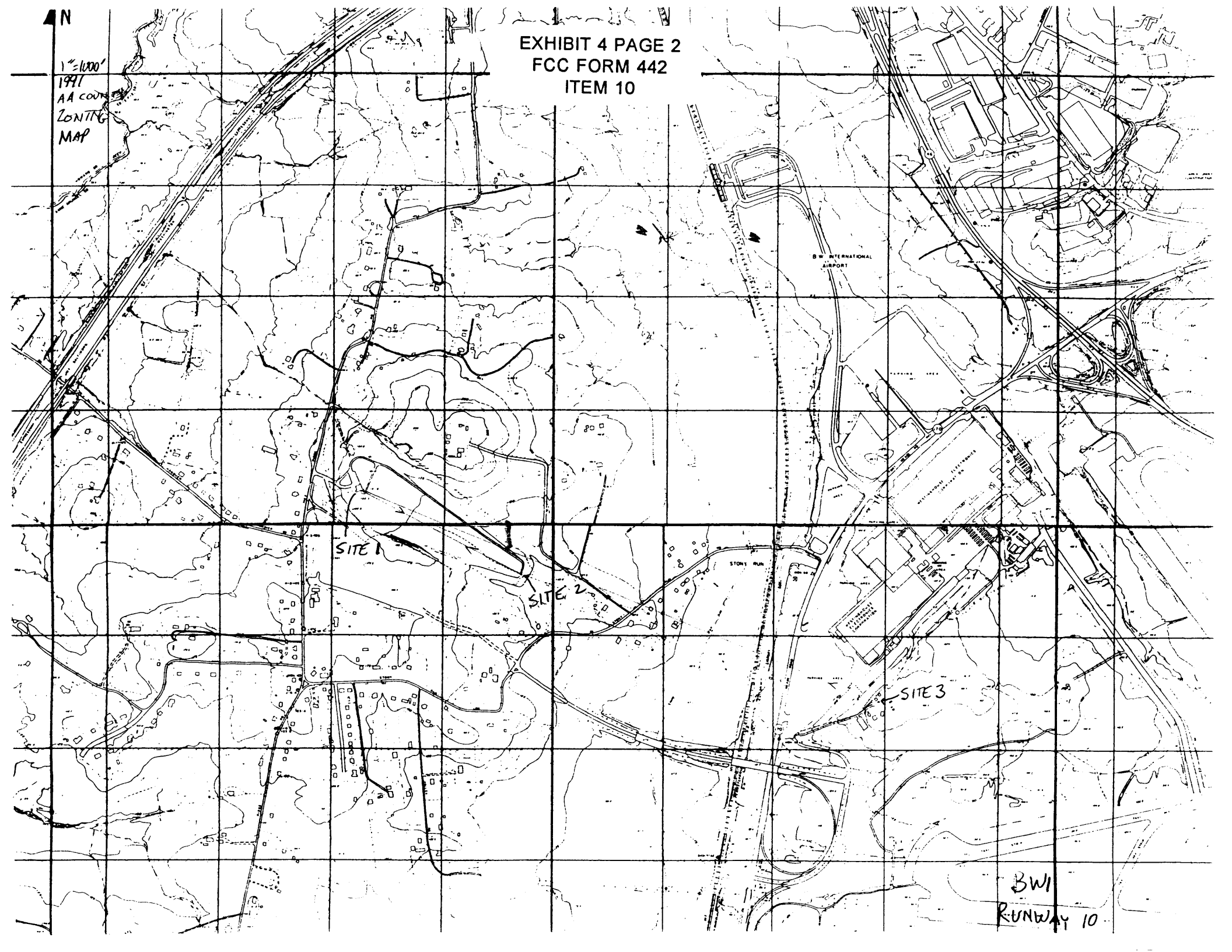
SITE 1

SITE 2

SITE 3

STONE RUN

BWI  
RUNWAY 10

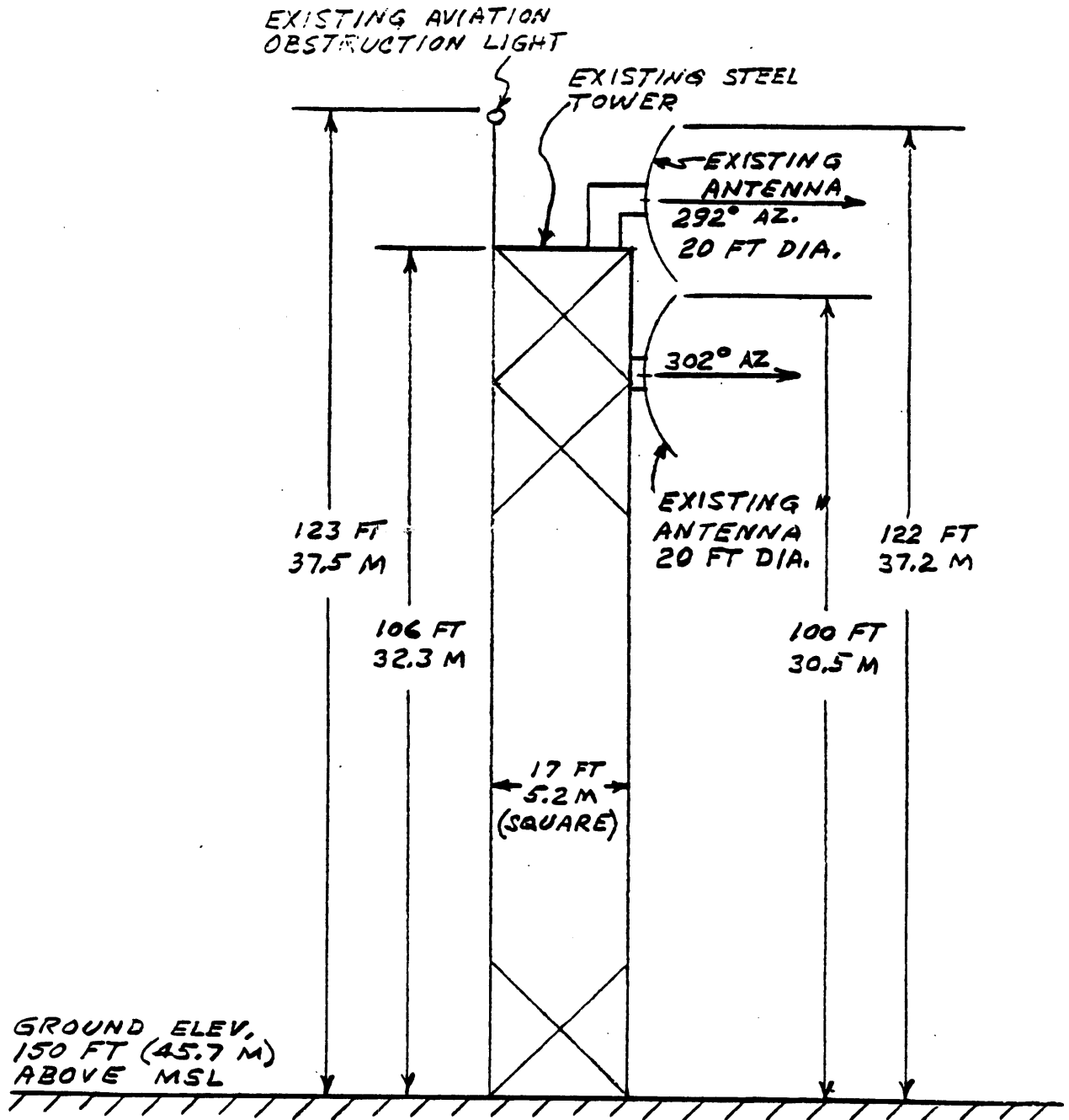


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**ENVIRONMENTAL IMPACT**

Pursuant to Sections 1.1306 and 1.1307 of the Commission's rules, this application is categorically excluded from environmental processing. The facility for which this modification of license is requested is not located in an area specified in section 1.1307(a)(1) through (7) of the Commission's rules and does not utilize high intensity lighting so as to be subject to environmental analysis under Section 1.1307(a)(8).

This facility also complies with the Commission's Radio Frequency Protection Guidelines specified in Section 1.1307(b) of the Commission's rules. Through fencing and appropriate warning signs, public access to any area in the vicinity of the facility in which the level of radio frequency radiation exceeds ANSI C95.1-1982 guidelines is restricted. This potential exposure area is determined by procedures outlined in OST Bulletin # 65 "Evaluating Compliance with FCC Specified Guidelines for Human Exposure to Radio Frequency Radiation." Furthermore, whenever the facility is being utilized to transmit radio frequency energy, worker access to the potential exposure area is restricted through visible and/or audible warning devices. Furthermore, the onsite personnel are periodically briefed on radio frequency safety procedures.



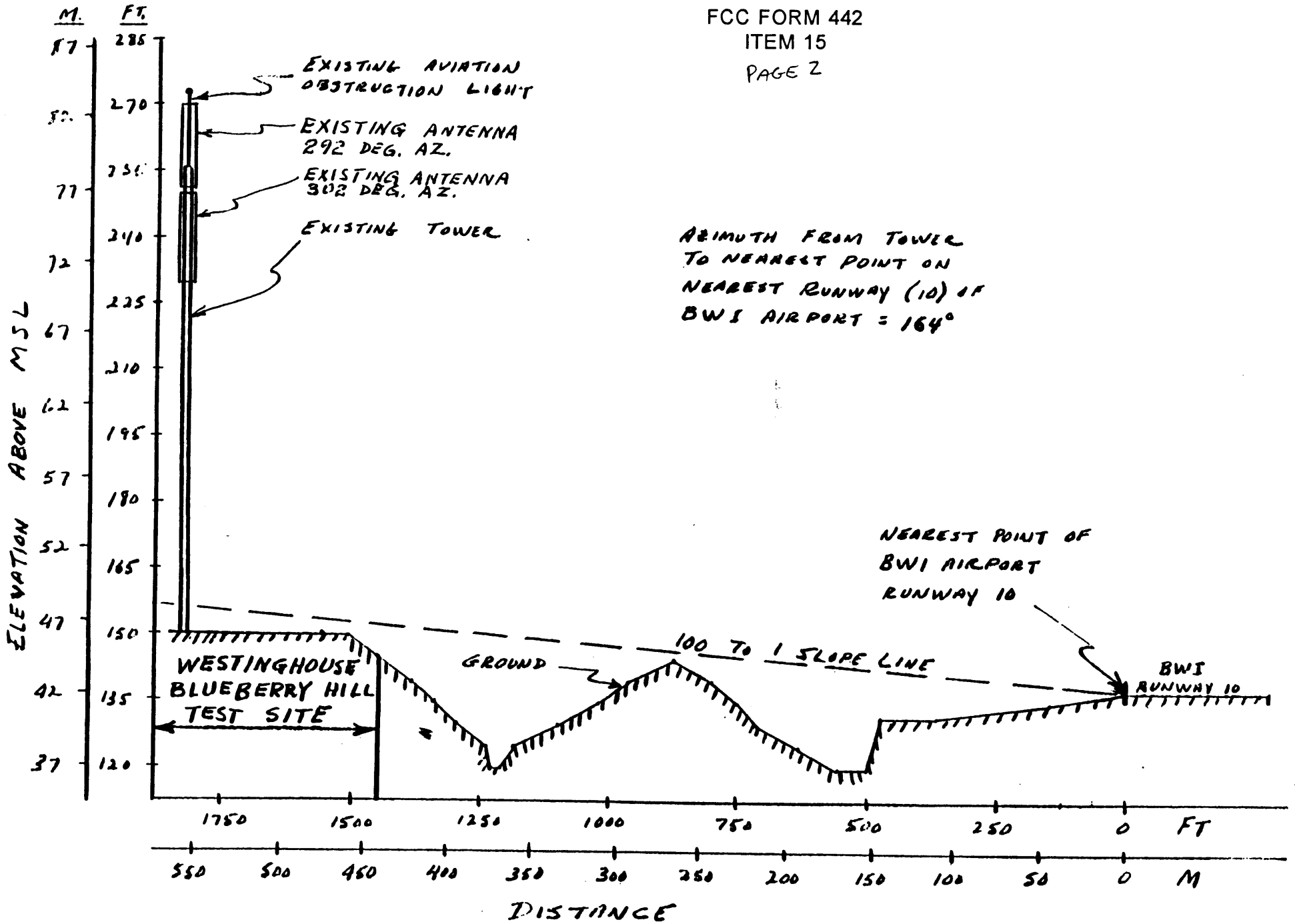
GROUND ELEV.  
150 FT (45.7 M)  
ABOVE MSL

AZIMUTH TO NEAREST POINT ON NEAREST RUNWAY (RWY 10) OF  
BWI AIRPORT IS 164°.

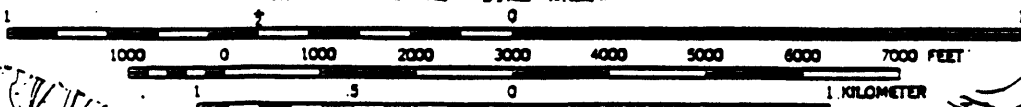
TOWER: N. LAT. 39° 10' 46.6137  
W. LON. 76° 41' 23.1505

SCALE 20 FT = 1 IN.

VERTICAL PROFILE OF TOWER  
AT BLUEBERRY HILL TEST SITE  
(SITE 3)







CONTOUR INTERVAL 20 FEET  
DATUM IS MEAN SEA LEVEL

**BLUEBERRY HILL**  
**TEST SITE 3**

0.557 KM  
1826 FT

BALTIMORE FRIENDSHIP  
INTERNATIONAL AIRPORT

RUNWAY 10

FAA  
RADAR

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