

SECTION V-B - FM BROADCAST ENGINEERING DATA (Page 3)

10. Is a directional antenna proposed?

Yes No

If Yes, attach as an Exhibit a statement with all data specified in 47 C.F.R. Section 73.316, including plot(s) and tabulations of the relative field.

Exhibit No.
N/A

11. Will the proposed facility satisfy the requirements of 47 C.F.R. Sections 73.315(a) and (b)?

Yes No

If No, attach as an Exhibit a request for waiver and justification therefor, including amounts and percentages of population and area that will not receive 3.16 mV/m service.

Exhibit No.
N/A

12. Will the main studio be within the protected 3.16 mV/m field strength contour of this proposal?

Yes No

If No, attach as an Exhibit justification pursuant to 47 C.F.R. Section 73.1125.

Exhibit No.
N/A

13. (a) Does the proposed facility satisfy the requirements of 47 C.F.R. Section 73.207?

Yes No

(b) If the answer to (a) is No, does 47 C.F.R. Section 73.213 apply?

Yes No

(c) If the answer to (b) is Yes, attach as an Exhibit a justification, including a summary of previous waivers. Proposal complies with Section 73.213 (c) (1)

Exhibit No.
Stmt. B

(d) If the answer to (a) is No and the answer to (b) is No, attach as an Exhibit a statement describing the short spacing(s) and how it or they arose.

Exhibit No.
N/A

(e) If authorization pursuant to 47 C.F.R. Section 73.215 is requested, attach as an Exhibit a complete engineering study to establish the lack of prohibited overlap of contours involving affected stations. The engineering study must include the following:

Exhibit No.
N/A

- (1) Protected and interfering contours, in all directions (360°), for the proposed operation.
- (2) Protected and interfering contours, over pertinent arcs, of all short-spaced assignments, applications and allotments, including a plot showing each transmitter location, with identifying call letters or file numbers, and indication of whether facility is operating or proposed. For vacant allotments, use the reference coordinates as the transmitter location.
- (3) When necessary to show more detail, an additional allocation study utilizing a map with a larger scale to clearly show prohibited overlap will not occur.
- (4) A scale of kilometers and properly labeled longitude and latitude lines, shown across the entire exhibit(s). Sufficient lines should be shown so that the location of the sites may be verified.
- (5) The official title(s) of the map(s) used in the exhibits(s).

14. Are there: (a) within 60 meters of the proposed antenna, any proposed or authorized FM or TV transmitters, or any nonbroadcast (except citizens band or amateur) radio stations; or (b) within the blanketing contour, any established commercial or government receiving stations, cable head-end facilities, or populated areas; or (c) within ten (10) kilometers of the proposed antenna, any proposed or authorized FM or TV transmitters which may produce receiver-induced intermodulation interference?

Yes No

If Yes, attach as an Exhibit a description of any expected, undesired effects of operations and remedial steps to be pursued if necessary, and a statement accepting full responsibility for the elimination of any objectionable interference (including that caused by receiver-induced or other types of modulation) to facilities in existence or authorized or to radio receivers in use prior to grant of this application. (See 47 C.F.R. Sections 73.315(b), 73.316(e) and 73.318.)

Exhibit No.
Stmt. C

15. Attach as an Exhibit a 7.5 minute series U.S. Geological Survey topographic quadrangle map that shows clearly, legibly, and accurately, the location of the proposed transmitting antenna. This map must comply with the requirements set forth in Instruction V. The map must further clearly and legibly display the original printed contour lines and data as well as latitude and longitude markings, and must bear a scale of distance in kilometers.

Exhibit No.
Fig. 2

16. Attach as an Exhibit *(name the source)* a map which shows clearly, legibly, and accurately, and with the original printed latitude and longitude markings and a scale of distance in kilometers: U.S.G.S.

Exhibit No.
Fig. 3

(a) the proposed transmitter location, and the radials along which profile graphs have been prepared;

(b) the 3.16 mV/m and 1 mV/m predicted contours; and

(c) the legal boundaries of the principal community to be served.

17. Specify area in square kilometers (1 sq. mi. = 2.59 sq. km.) and population (latest census) within the predicted 1 mV/m contour.

Area 1120 sq. km. Population 37,100

18. For an application involving an auxiliary facility only, attach as an Exhibit a map *(Sectional Aeronautical Chart or equivalent)* that shows clearly, legibly, and accurately, and with latitude and longitude markings and a scale of distance in kilometers:

Exhibit No.
N/A

(a) the proposed auxiliary 1 mV/m contour; and

(b) the 1 mV/m contour of the licensed main facility for which the applied-for facility will be auxiliary. Also specify the file number of the license.

19. Terrain and coverage data *(to be calculated in accordance with 47 C.F.R. Section 73.313)*

Source of terrain data: *(check only one box below)*

Linearly Interpolated 30-second database 7.5 minute topographic map

(Source: _____)

Other *(briefly summarize)*

U.S.G.S./D.M.A. 3 arc second database

SECTION V-B - FM BROADCAST ENGINEERING DATA (Page 5)

Radial bearing (degrees True)	Height of radiation center above average elevation of radial from 3 to 16 km (meters)	Predicted Distances	
		To the 316 mV/m contour (kilometers)	To the 1 mV/m contour (kilometers)
*			
0	99	13½	24
45	103	13½	24½ (sea)
90	105	14 (sea)	24½ (sea)
135	104	13½ (sea)	24½ (sea)
180	102	13½	24½
225	95	13	23½
270	96	13	24
315	95	13	23½

*Radial through principal community, if not one of the major radials. This radial should NOT be included in the calculation of HAAT.

20. Environmental Statement (See 47 C.F.R. Section 1.1301 et seq.)

Would a Commission grant of this application come within Section 1.1307 of the FCC Rules, such that it may have a significant environmental impact? Yes No

If you answer Yes, submit as an Exhibit an Environmental Assessment required by Section 1.1311. Exhibit No:
N/A

If No, explain briefly why not. Proposal categorically excluded under Section 1.1306; human exposure to excessive electromagnetic energy will not occur; see Statement D.

CERTIFICATION

I certify that I have prepared this Section of this application on behalf of the applicant, and that after such preparation, I have examined the foregoing and found it to be accurate and true to the best of my knowledge and belief.

Name (Typed or Printed) Karl D. Lahm, P.E.	Relationship to Applicant (e.g., Consulting Engineer) Consulting Engineer
Signature 	Address (Include ZIP Code) Lahm, Suffa & Cavell, Inc. 3975 University Dr., Suite 450 Fairfax, VA 22030
Date 19 December 1990	Telephone No. (Include Area Code) (202) 332-0110

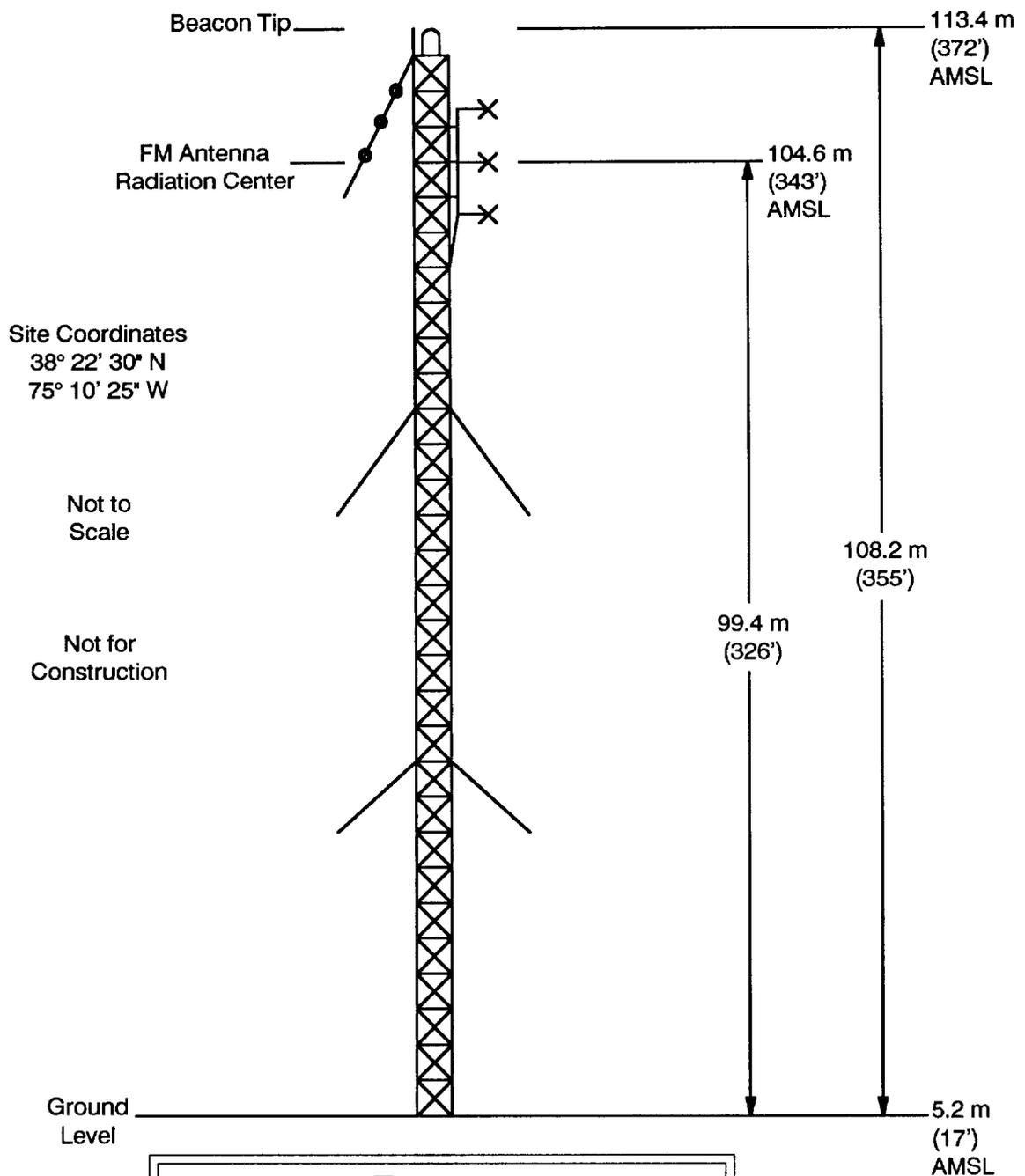


FIGURE 1
ANTENNA SYSTEM ELEVATION PLAN

prepared December 1990 for
Webb Broadcasting, Inc.
Ocean City, Maryland

Ch 295A (106.9 MHz) 3 kW 100 m

Lahm, Suffa & Cavell, Inc.
Consulting Engineers - Fairfax, VA

Statement A

TOWER STRUCTURE TO BE USED

prepared for
Webb Broadcasting, Inc.
Ocean City, Maryland

The antenna support tower to be used is a new multiple-use communications structure for which planning is complete but construction has not yet commenced. The tower is being designed to accommodate two-way, broadcast, paging, and similar tenants. The exact identity of services and applications is not known at this time.

The tower proponent notified the Federal Aviation Agency (FAA) of the proposed structure construction, but the date of that notification is presently unknown. The FAA has issued a "no hazard" determination (Airspace Study No. 90-AEA-1294-OE) for an overall structure elevation of 113.4 meters (372 feet) above mean sea level at this site. A copy of the FAA's determination notice is not presently in hand but will be provided in an amendment as soon as it can be obtained.

It is believed that, subsequent to the FAA's clearance of the overall structure height shown in this application, the tower proponent requested FAA approval for a total elevation of 128.0 meters (420 feet) above mean sea level. If the FAA approves, the structure may be built to that height. The instant application reflects the height presently cleared by the FAA. It will be amended as appropriate, should the tower proponent obtain approval of a taller structure and modify its plans.

Statement B

ALLOCATION CONSIDERATIONS

prepared for
Webb Broadcasting, Inc.
Ocean City, Maryland

The proposed facility does not comply with the interstation distance separation requirements set forth in §73.207 of the Commission's Rules, as effective on 2 October 1989. However, this is a new station proposal on a channel allotment made by order granting a Petition for Rule Making (MM Docket No. 89-578) which was filed prior to October 2, 1989. Accordingly, this proposal may be accepted under the provisions of §73.213(c)(1) of the Rules, as recognized in Footnote 1 to the Report and Order in MM Docket No. 89-578.

Section 73.213(c)(1) specifies a less restrictive table of minimum distance separations applicable to Class A applications which meet the threshold criteria set forth above and propose operation equivalent to an effective radiated power (ERP) of 3 kW at a height above average terrain (HAAT) of 100 meters. The instant proposal involves exactly such operation.

The spacing between this proposed site and that specified for the nearest first lower adjacent channel Class A application at North Cape May, N.J., is 68.7 kilometers. Section 73.207 requires a separation of 72 kilometers for this relationship, but §73.213(c)(1) permits a separation of 64 kilometers, which this proposal meets. The site proposed is located 223.4 kilometers from the transmitter site of co-channel Class C station WAFX, Suffolk, VA. Section 73.207 requires a separation of 226 kilometers with respect to WAFX, but §73.213(c)(1) allows a spacing of 222 kilometers, which this proposal meets. Co-channel Class B station WKDN, Camden, NJ, is located 170.4 kilometers from the site proposed herein. Under §73.207, a separation of 178 kilometers is required, but separations down to 163 kilometers are permitted under §73.213(c)(1). Lastly, first upper adjacent channel Class A station WDLE-FM, Federalsburg, MD, is located 66.2 kilometers from this proposed Ocean City station. A minimum separation of 72 kilometers is specified under §73.207, but spacings down to 64 kilometers are permitted under §73.213(c)(1).

Statement C

INTERFERENCE CONSIDERATIONS

prepared for
Webb Broadcasting, Inc.
Ocean City, Maryland

The proposed tower structure is being constructed as a multiple use communications facility. The exact mix of services and frequencies is not set at this time. As the facility will be newly constructed for multiple service use, appropriate precautions, such as circulator and/or filter installation, shielding, etc., will be taken to assure compliance with the emissions specifications of the Commission's rules for the various services involved. Webb Broadcasting recognizes its responsibility to design and install its equipment to avoid interference, in cooperation with other structure users.

There are populated areas near the transmitter site which might expand to include the area within the blanketing contour prior to grant of this application. In that event, Webb Broadcasting recognizes its responsibility under the provisions of §73.318 of the Commission's Rules to resolve interference complaints in that area.

There are no FM stations located within 10 kilometers which might, in combination with transmissions proposed herein, cause receiver-induced intermodulation interference to FM broadcast reception. Channel 284 FM broadcast station WQHQ is located 10.4 kilometers from this site. A third-order intermodulation product of WQHQ and the channel 295 operation proposed herein would fall on channel 273, which is used in this area by WOLC, Princess Anne, MD. However, owing to the distance separation between the transmitter sites and the low effective radiated power proposed, no transmitter nor receiver induced intermodulation interference to WOLC is likely.

There are several low power television (LPTV) stations located within 10 kilometers of this site, but no intermodulation interference is expected to result because of the transmitter separations, frequency differences, and low transmitter powers of these secondary stations.

Statement D

ENVIRONMENTAL CONSIDERATIONS

prepared for
Webb Broadcasting, Inc.
Ocean City, Maryland

The instant proposal is not believed to have a significant environmental effect, as defined under Section 1.1307 of the Commission's Rules. Consequently, preparation of an Environmental Assessment is not required. The instant proposal is categorically excluded from environmental processing under the provisions of Section 1.1306 of the Commission's Rules.

Nature of the Proposed Transmitter Site

The proposed transmitter site is not located in an officially designated wilderness area or wildlife preserve. It will not affect listed threatened species, endangered species, nor critical habitats. There are no known locations listed in the National Register of Historic Places or eligible for listing therein nearby, nor are any known Indian religious sites affected. The site is not located in a flood plain; significant changes in surface features are not contemplated. The site is not within a residential neighborhood and no requirement for high intensity white lighting is expected to be imposed by the FAA.

Furthermore, the proposed tower structure is presently planned for multiple communications system use. Concentration of facilities on one structure is an environmentally desirable alternative to multiple tower construction.

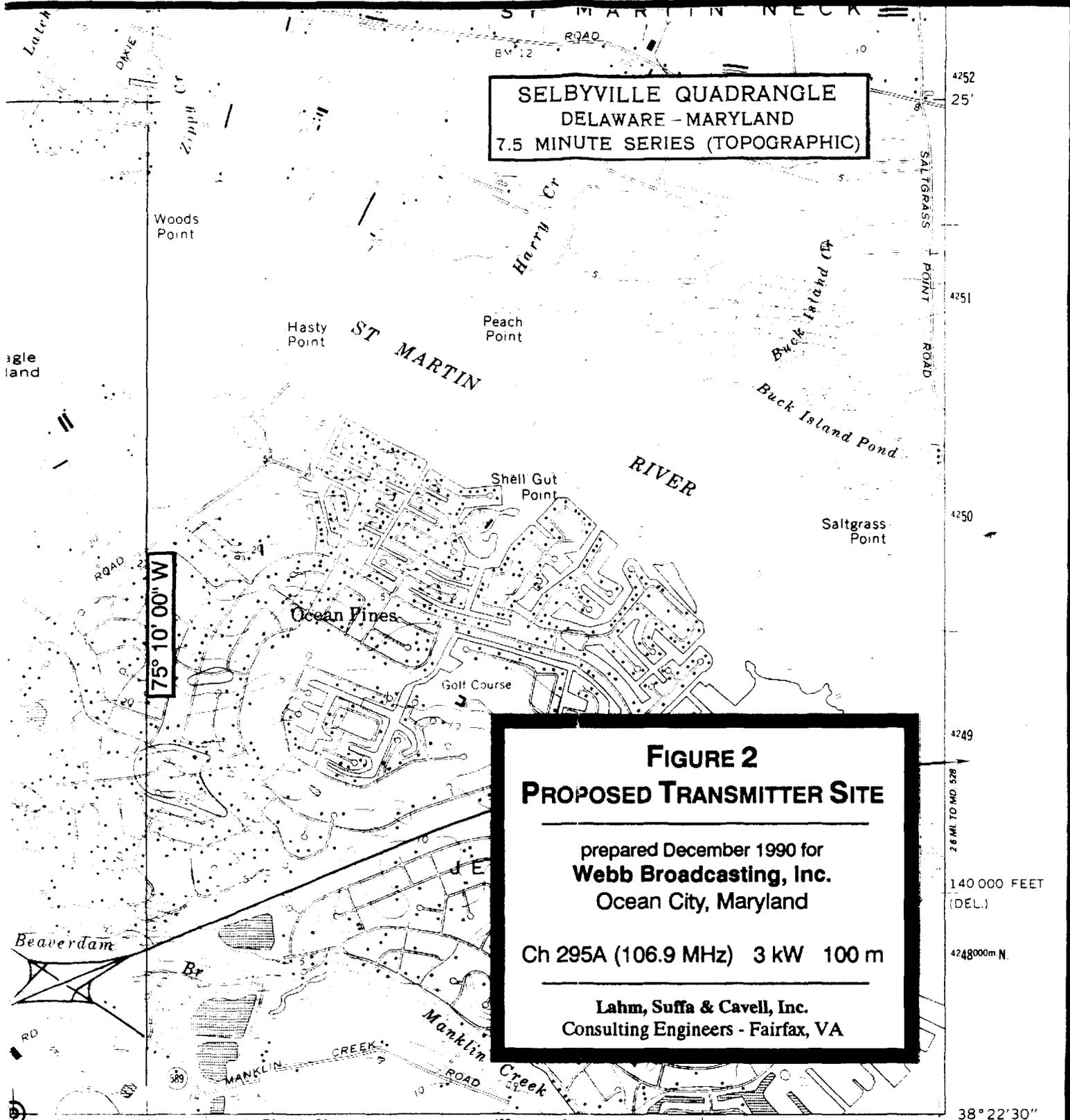
Human Exposure to Electromagnetic Energy

The proposed transmitting system has been evaluated in accordance with the procedures set forth in FCC OST Bulletin No. 65, "Evaluating Compliance With FCC-Specified Guidelines for Human Exposure to Radiofrequency Radiation," October, 1985. Table 1 of Appendix B thereto sets forth the minimum vertical separations between individuals and the FM antenna radiation center in order for compliance with the FM exposure standard of 1 milliwatt per square centimeter to be presumed to exist. For an FM station operating with an effective radiated power (ERP) of 3 kilowatts, circularly polarized,

computation based on that Table yields a minimum separation of 14.1 meters, worst case. The actual separation between the antenna radiation center and ground is approximately 99 meters. Consequently, the "worst case" exposure level for the public or workers two meters above ground level is expected to be no greater than 2.1 percent of the protection guideline for FM broadcast frequencies. Exposure of tower maintenance personnel will be restricted by appropriate measures.

Field experience has shown that electromagnetic exposure levels measured are almost always less than those predicted under the Commission's "worst-case" evaluation criteria, particularly for FM antennas having more than one bay.

SELBYVILLE QUADRANGLE
DELAWARE - MARYLAND
7.5 MINUTE SERIES (TOPOGRAPHIC)



75° 10' 00" W

FIGURE 2
PROPOSED TRANSMITTER SITE

prepared December 1990 for
Webb Broadcasting, Inc.
 Ocean City, Maryland

Ch 295A (106.9 MHz) 3 kW 100 m

Lahm, Suffa & Cavell, Inc.
 Consulting Engineers - Fairfax, VA

4252
25'
4251
4250
4249
2.6 MI TO MD 528
140 000 FEET (DEL.)
4248000m N.

● INTERIOR- GEOLOGICAL SURVEY RESTON, VIRGINIA-1983
 580 000 FEET (DEL.) 488000m E.

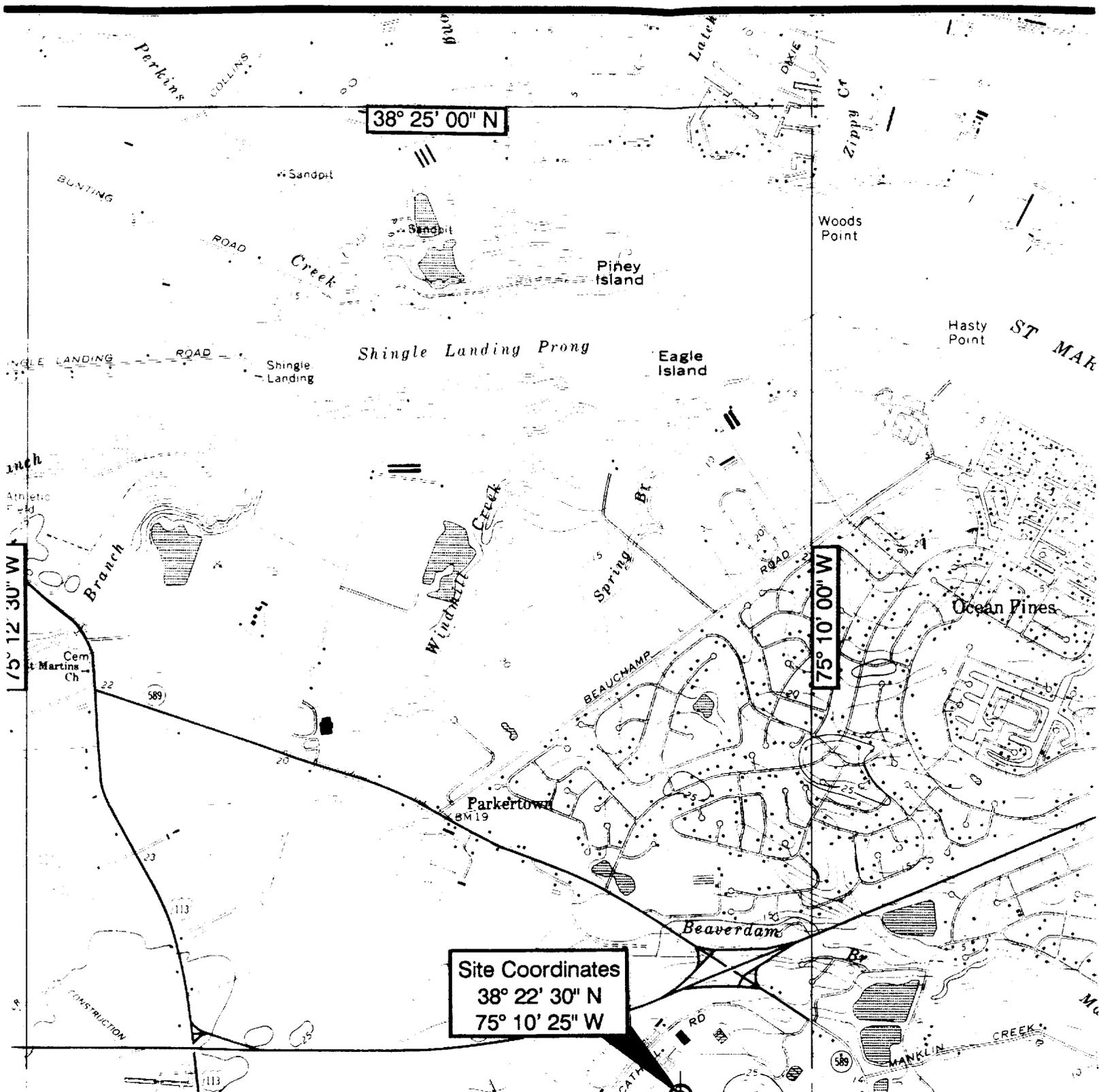
ROAD CLASSIFICATION

- | | |
|--|--|
| Primary highway, all weather, hard surface | Light-duty road, all weather, improved surface |
| Secondary highway, all weather, hard surface | Unimproved road, fair or dry weather |

- U. S. Route
 State Route

1 MILE
 200 FEET

38° 22' 30"
 75° 07' 30"
 (OCEAN CITY)
 5900' SE



38° 25' 00" N

Woods Point

Piney Island

Shingle Landing Prong

Eagle Island

Hasty Point

ST MAR

75° 12' 30" W

75° 10' 00" W

Site Coordinates
 38° 22' 30" N
 75° 10' 25" W

2' 30" 482

BERLIN 3.8 MI
 SNOW HILL 1.9 MI

38° 22' 30" N 484

485

10'

1.9 MI. TO U.S. 50

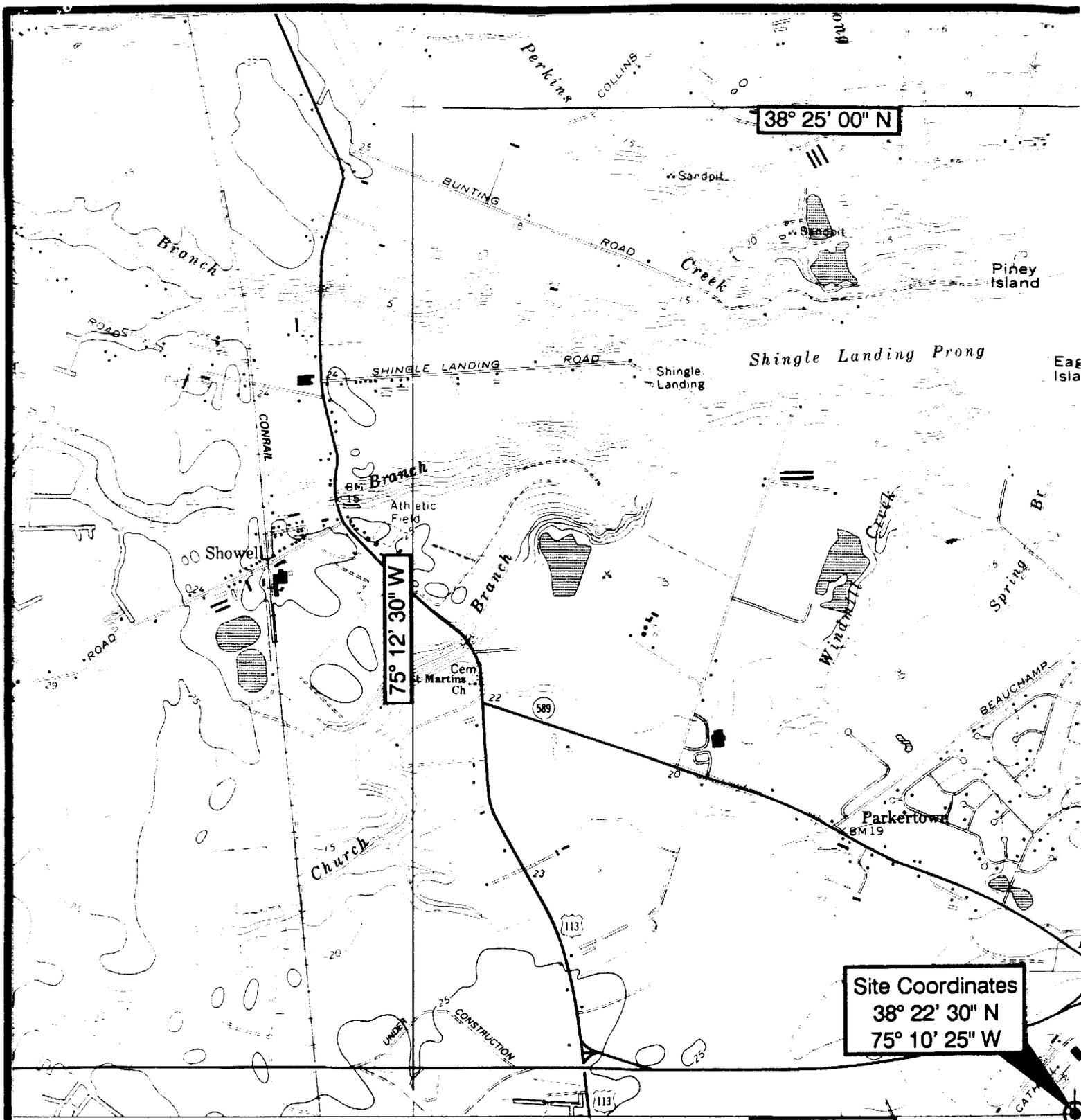
SCALE 1:24 000

0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

0 5 10 KILOMETER

CONTOUR INTERVAL 5 FEET
 NATIONAL GEODETIC VERTICAL DATUM OF 1929

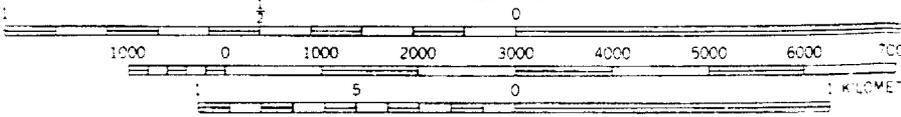


Site Coordinates
 38° 22' 30" N
 75° 10' 25" W

'80 1 310 000 FEET (M.D.) 12'30" '82 BERLIN 3.8 MI. SNOW HILL 19 MI 38° 22' 30" N '84

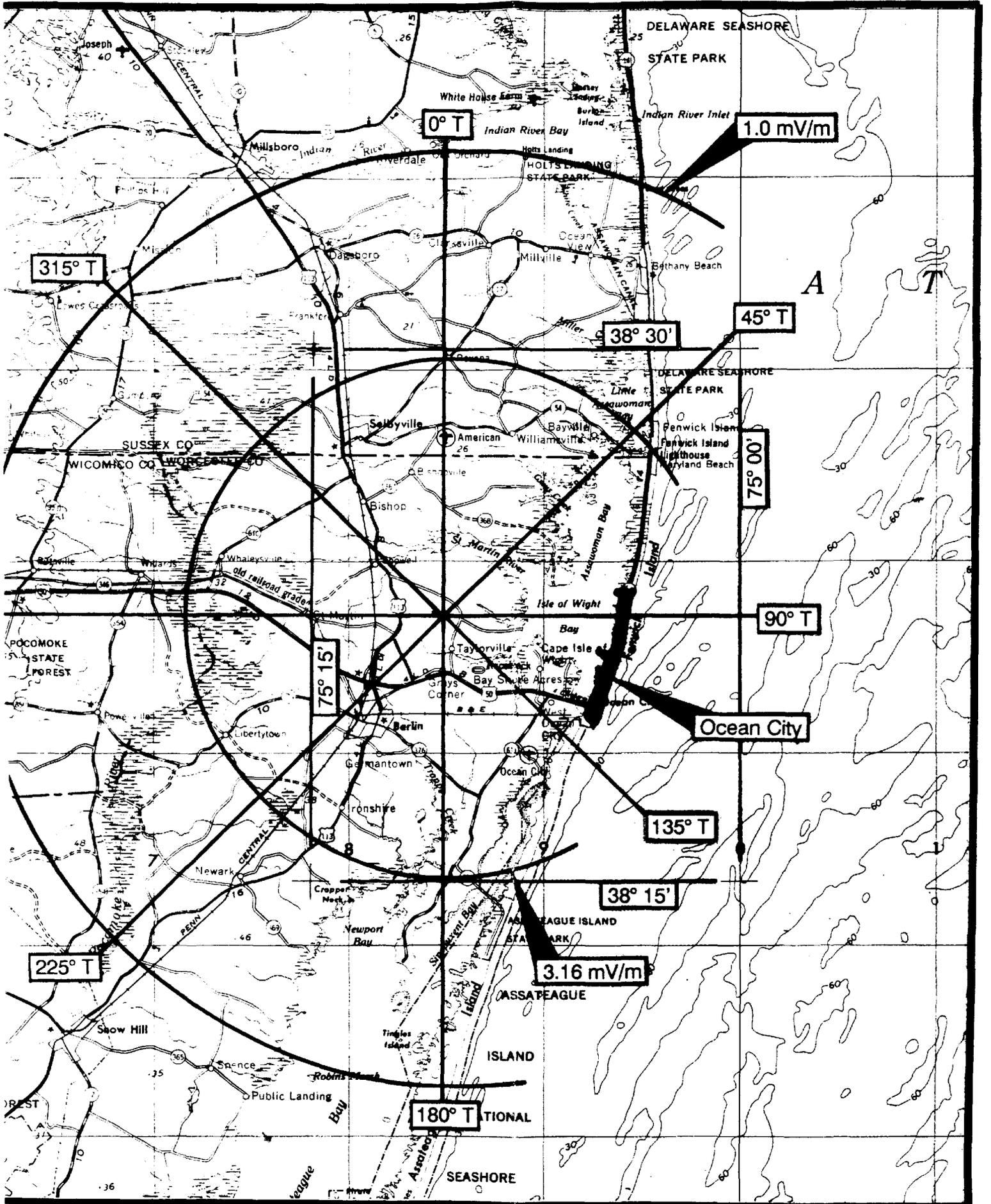
Survey
 il Surveys

MN
 JGN
 10 1/2"
 187 MILS
 0"07"
 2 MILS

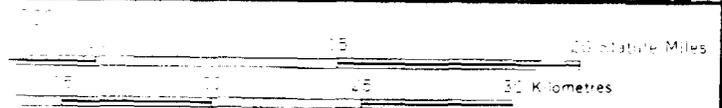
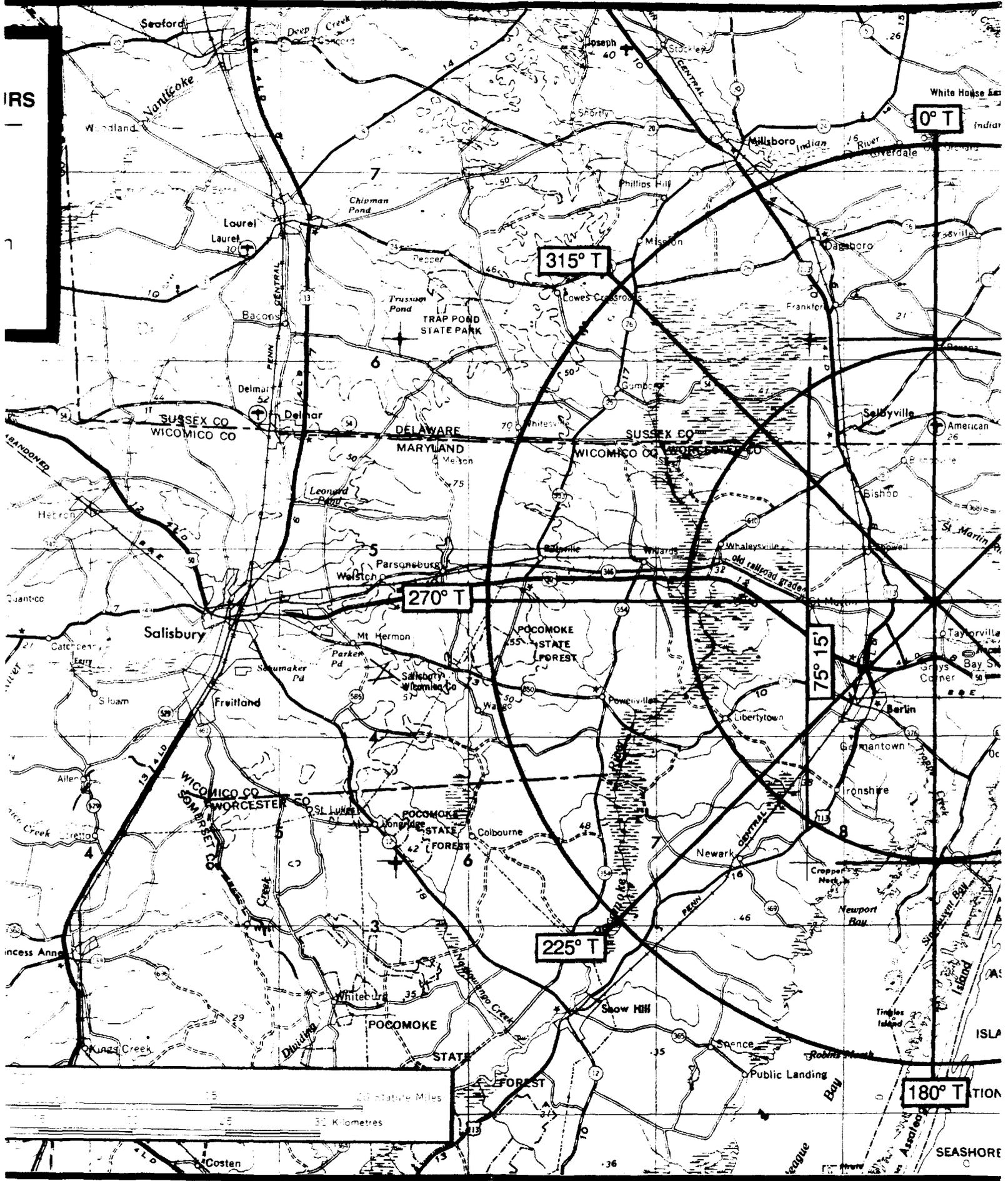


(1966)

CONTOUR INTERVAL 5 FEET
 NATIONAL GEODETIC VERTICAL DATUM OF 1929



IRS



180° T

225° T

270° T

315° T

0° T

SEASHORE

FIGURE 3 PROPOSED COVERAGE CONTOURS

prepared December 1990 for
Webb Broadcasting, Inc.
Ocean City, Maryland

Ch 295A (106.9 MHz) 3 kW 100 m

Lahm, Suffa & Cavell, Inc.
Consulting Engineers - Fairfax, VA

Salisbury, MD.;
DEL.; N.J.; VA.
1:250:000

Coverage within 1.0 mV/m contour:
Area (sq km) 1,120
Population (1980 Census) 37,100

Scale 1:250,000

