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M/EB 91/65
22 March 1965
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MEMORANDUM FOR: Chief, Defensive Systems Division, OSI

ATTENTION: [redacted] Anti-Ballistic Missiles Branch

THROUGH: Chief, Requirements Branch, Reconnaissance Group, CGS

FROM: Chief, Photographic Intelligence Division, CIA

SUBJECT: Unidentified Antenna Array - Moscow Area, USSR

REFERENCE: (a) Requirement C-SI5-82,213
(b) CIA/PID Project 30162-5

1. This memorandum is in response to your requirement dated 18 January 1965 which requests a detailed analysis of the unidentified antenna array within the pentagon-shaped wall, located in the Moscow area.

2. The antenna array is located at 55-22N 037-27E, approximately 24 nautical miles south-southwest of Moscow and approximately 6 nautical miles southwest of Podolsk. The analysis was conducted utilizing several KEYHOLE missions from May 1962 through 26 February 1965. The attached line drawing and perspective and all mensuration was accomplished using [redacted]. All measurements have been made by the NPIC Technical Intelligence Division, with the exception of distances measured outside the walled area, and the height of Tower F which were made by the CIA/PID project analyst. The NPIC/TID measurements are considered to be accurate within + 10 feet or + 10%, whichever is greater, for all horizontal measurements, and + 15 feet for all height. The measurements made by the analyst should be considered as approximate and must not be taken as official NPIC mensuration data.

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3. The antenna site contains three self-supporting lattice-type towers (Attachment 1, Items A,B,C) each 130 feet high, with fourteen thinner masts, also 130 feet high, uniformly spaced 65 feet apart between the lattice towers. There are also footings for a fourth tower (Attachment 1, Item D). Two other lattice towers, both 100 feet high, are located just west of the center mast between Towers B and C, and just north of the center of a line between Towers A and B (Attachment 1, Items E and F). The calculated ratio of Towers E and F to the radius of the arc formed by the masts between Tower A and B and B and C, is approximately 46 units to 100 units or 46 per cent (See Attachment 1 inset). The purpose of Towers E and F is undetermined at this time, however they probably have the capability of movement along the probable track as annotated on Attachments 1 and 3. Also located immediately west of a line between Towers B and C, is a concrete pad measuring 90 feet by 70 feet. A probable control building, 120 feet by 35 feet, is located in the approximate center of the site (Attachment 1, Probable Control Building "B").

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GROUP 1
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SUBJECT: Unidentified Antenna Array - Moscow Area, USSR [REDACTED]

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[REDACTED]

[REDACTED] The entire site is surrounded by a pentagon-shaped wall measuring 780 feet on each side. The wall appears to have been constructed in a dike-shape (See Attachment 3 for an artists concept of the site). Located approximately 650 feet northeast of the nearest wall, and alongside the road, are two earth mounds supporting unidentified probable radars. Also located along the road, approximately 1800 feet east-northeast of the nearest wall, is a T-shaped building which probably also is a control building for the antenna system (See Attachment 1, Probable Control Building "A"). The length of the building is 145 feet with a width of 45 feet. Mensuration could not be accomplished on the back wing of the building because of poor building corner definition. A probable conduit parallels the road entering the walled site, however the origin and termination points could not be definitely established from available photography. No support area was specifically constructed for this site, however the Krug site support area, located approximately 2000 feet east-northeast of Probable Control Building "A", is probably used for direct support of the antenna site.

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4. This antenna site can be negated on Mission [REDACTED]. It was first noted on photography dated November 1962. At that time ground scarring was discernible although further interpretation was precluded by haze and poor image quality of photography. Probable Control Building "A" was present at this time and appeared to be completed. By June 1963 construction on Probable Control Building "B" was noted and appeared to be in early-to-mid stages. No other activity was observed at this time. In June 1964, the three 130-foot self-supporting lattice towers were observed to be completed or in late construction stages. Also footings for a probable fourth lattice tower were first observed (Attachment 1, Item D). Probable Control Building "B" appeared to be complete and the pentagon-shaped wall was complete on three sides with construction in progress on the remaining two sides. At least seven of the fourteen thinner 130 foot masts could be seen lying on the ground, uniformly spaced and apparently in position to be placed upright. In October 1964 there were no significant changes at the site, but one probable radar appeared to be in place atop the nearest mound northeast of the antenna site. The site was next seen on photography dated [REDACTED]

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[REDACTED] This photography was the basis for the detailed description in paragraph three of this report. Photography dated [REDACTED] was poor in quality, but did reveal the presence of a second 100 foot lattice-type tower in the track path (Attachment 1, Item F).

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5. The photo analyst on this project is [REDACTED] who may be contacted on [REDACTED] should you have any further questions concerning this project.

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6. This project is not considered to be complete, pending publication of this material in a hard copy.

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Enclosures:

- 1 - One line drawing
- 2 - One photo enlargement
- 3 - One perspective concept

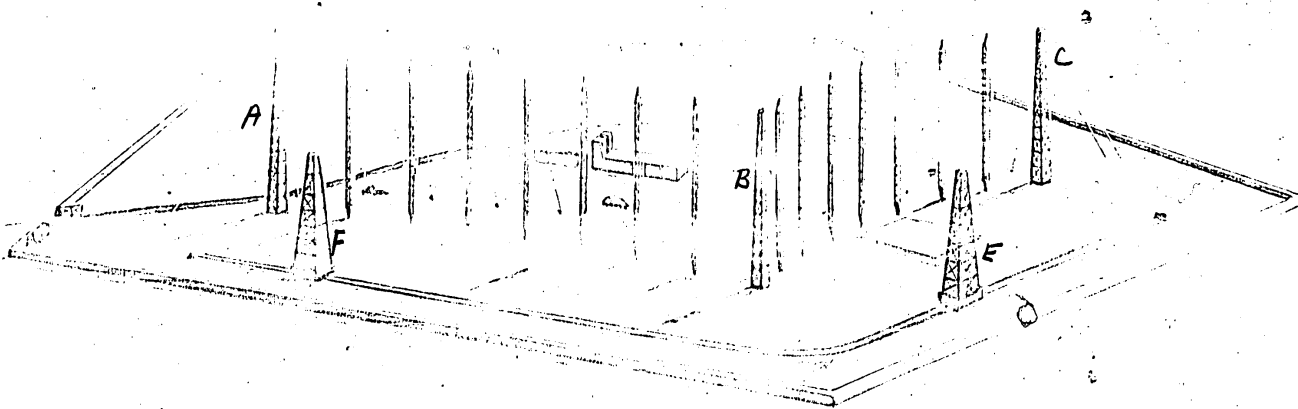
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PERSPECTIVE CONCEPT

CIA/PID/MEB-P-135/65
Attachment 3 to:

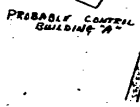
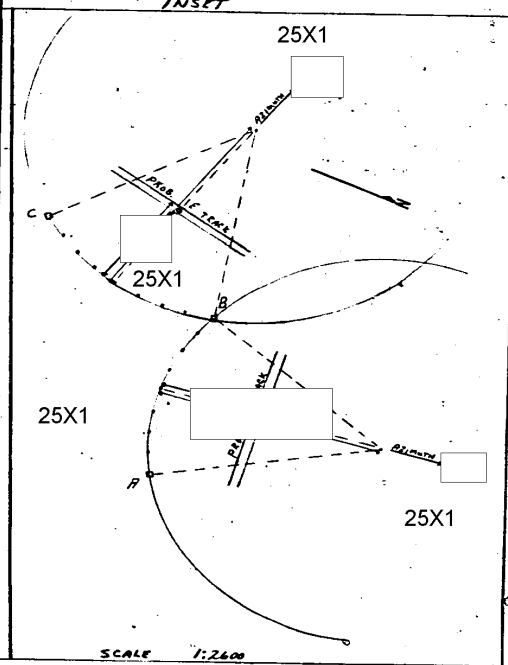
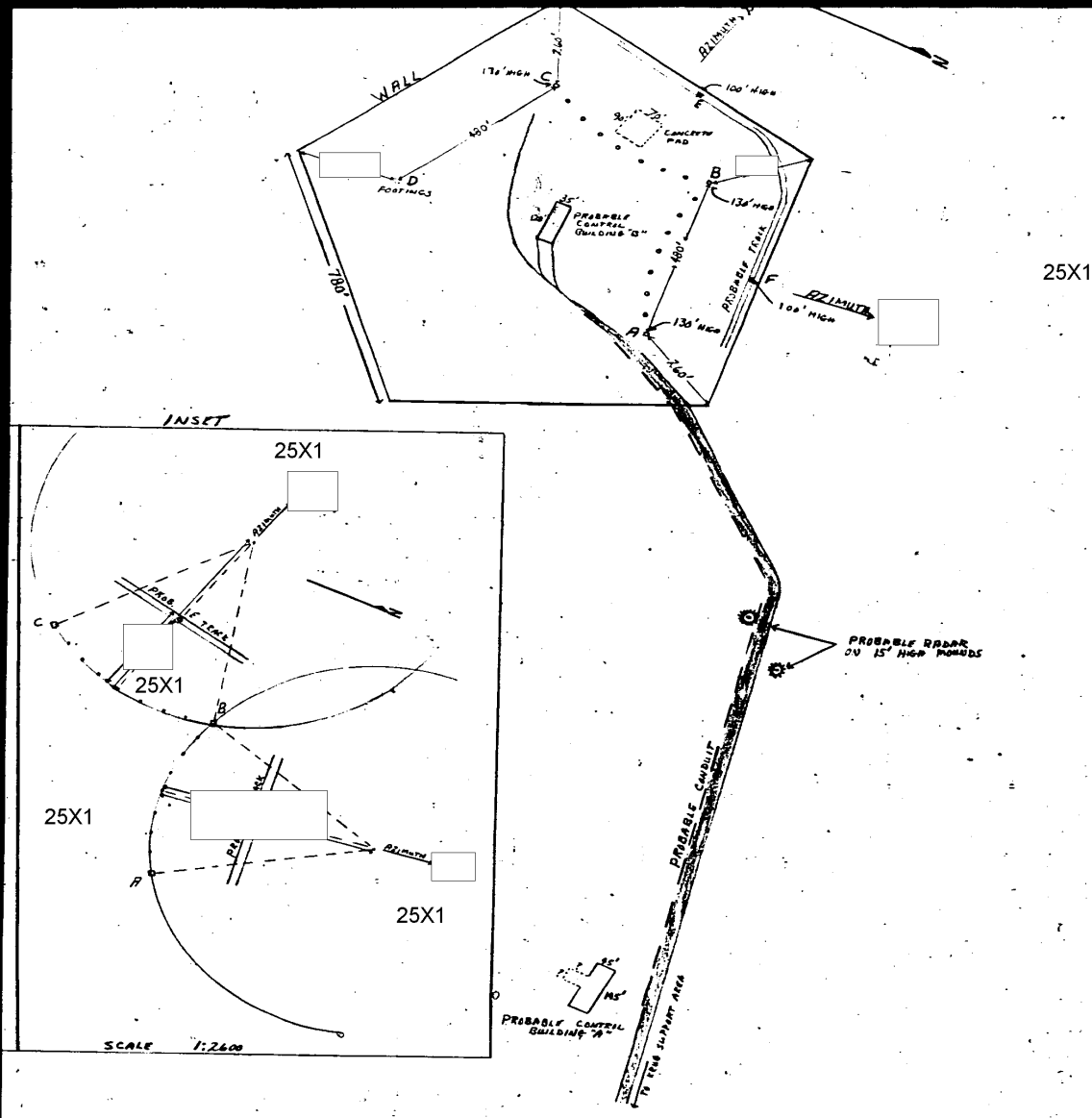
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ATTACHMENT 3

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APPROXIMATE SCALE 1:2600

NOTE

All measurements have been made by the Technical Intelligence Division, (NPIC), with the exception of distances measured outside the walled area. These measurements were made by the CIA/TID project analyst. They should be considered as approximate and must not be taken as official NPIC mensuration data. The NPIC/TID measurements are considered to be accurate within ± 10 feet or $\pm 10\%$, whichever is greater, for horizontal measurements, and ± 15 feet for all heights.

16487

CIA/PIC/MB-P-112/25
 Attachment 1 to:
 WEB 01/05

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