NATIONAL RADIO ASTRONOMY OBSERVATORY Green Bank, West Virginia

August 30, 1982

TO:

VLBA Group

FROM:

B. Brundage, B. Peery (Site Group)

SUBJECT: Telescope Sites

Attached is a conceptual site plan, a conceptual floor plan for the telescope control building, and a proposed site rating sheet.

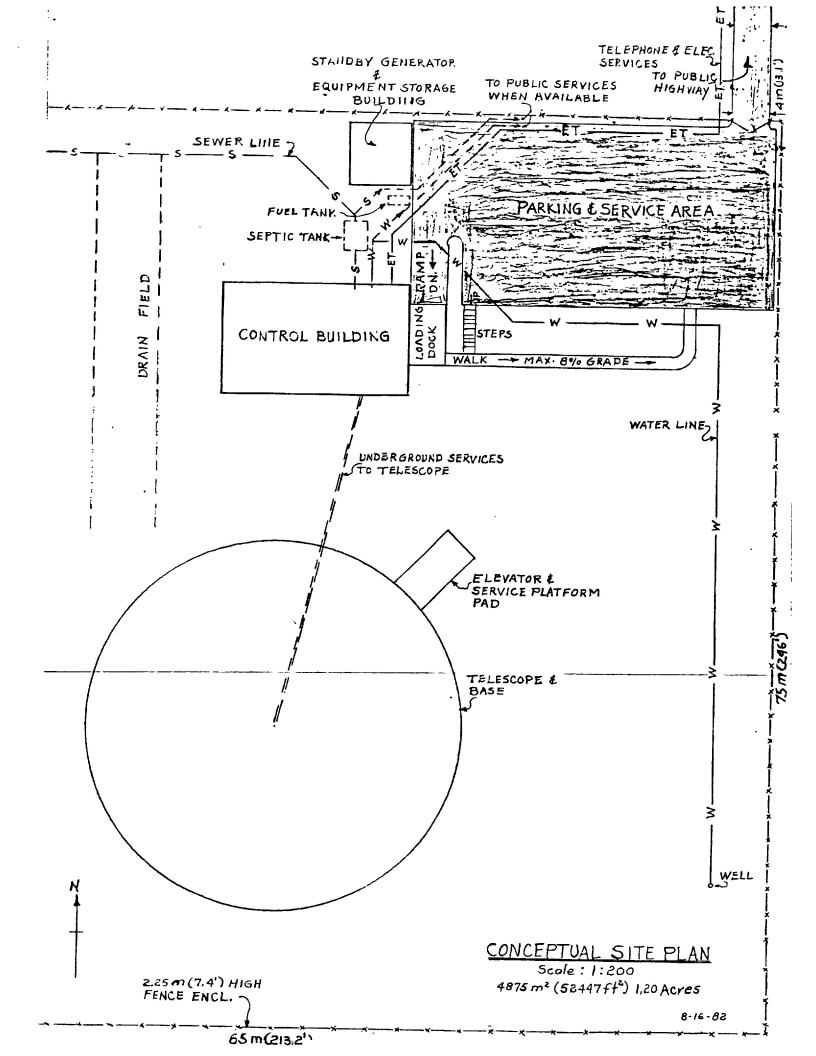
The conceptual plans are for review and comments, and will be updated as more definite requirements are established. Each site will require certain modifications to these plans to adapt to the particular site once the exact location is known.

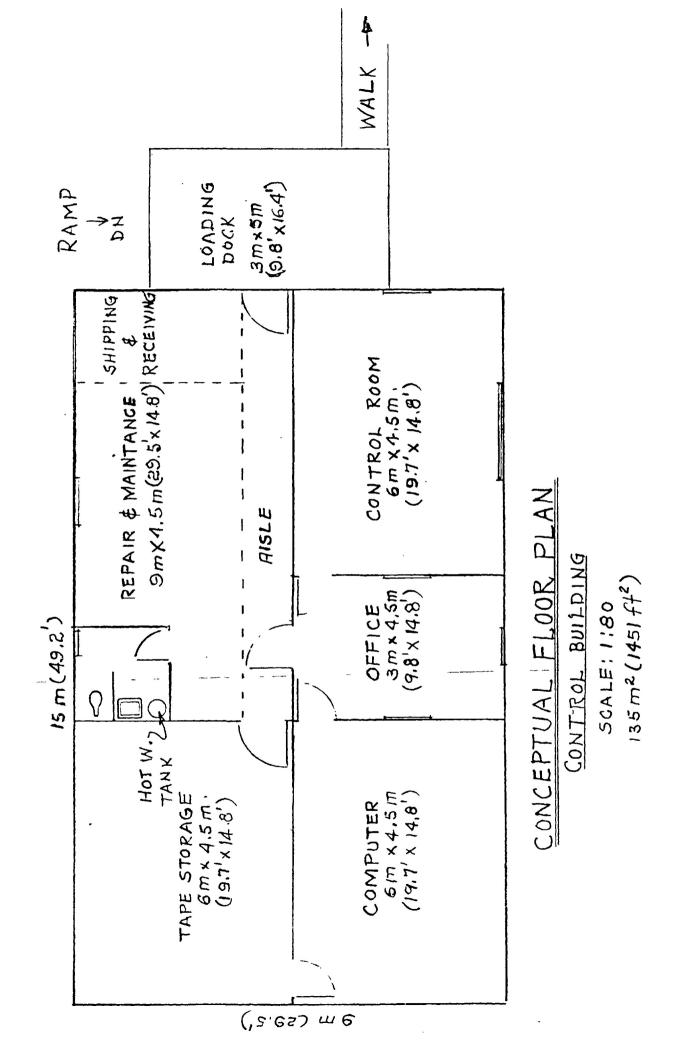
A conceptual floor plan for the Array Operation Center will be developed and distributed for review at a later date.

Please review the site rating sheet and advise if there are other items that should be considered. It will be noted that there are a number of blank spaces in the desired column. If there are parameters that can be inserted in these spaces, please advise. One of these sheets will be completed for each potential site once the general location is established. This is activities 1-2 and 4-5 described in Memo #99.

Until the general site locations have been established, the site group will listen in on the configuraton group meetings. Their meeting schedule will be our meeting schedule.

BP/bbs Attachments





SITE RATING SHEET

7	Ratin	g Parameters
Items Considered	Actua1	Desired '.
Location		
Nearest Town	Miles	Miles
Name		
Size		
Access (Air-Bus-Train)		
Nearest University-College		
Highway Nos.		}
Elevation		
Latitude		
Longitude		
Horizon		
Weather - (History)		
Flooding		None
Ice		Minimum (Typical Antenna Specification)
Snow		Minimum " " "
Wind		Nominal " " "
Lightning		Minimum " " "
Moisture (RH) (Water Vapor)		
Clear Days		
Temperature Range		-25° C to 40°C
Utilities Available		
Elec.		Yes - 60 KVA
Water		Could use - not necessary
Road		Yes - within 125 m (410 ft.)
Sewer		Could use - not necessary
Natural Gas		No
Telephone		Yes - Min 5 circuits
Microwave		No
Present Development in Area		
Industrial		No
Residential		No
Recreation		?
Others		None

SITE RATING SHEET (Cont.)

Items Considered	Actual	Desired
Juhuma Danalamant da Anaa		Destred
Future Development in Area		
Type		None
Land Use Plan		Yes
Master Plan		Yes
Zoning Requirements		Yes
Central or Major Supply Center		
Distance		
Service From		
UPS		Yes or Equivalent
Truck		Yes
Others		
RF Interference		None
Radio & TV Stations		
FreqRange		
Radio Navigation Aids		
FreqRange		
MicroWave Systems		
FreqRange		
Industrial & Business		
FreqRange		
Others		
Notification - Zone Radius		
Site Land		
Size		1.5 acres
Buy		Yes
Lease		No
Condition		Cleared and flat
Owner		
Cost		
Site Facilities		
Control Building		Yes 2
Size		135 m ² (1451 ft ²)
Functions		Control, Maintenance, Computer, Storage
RFI Shielding		Yes - RFI Spectrum?
Environmental Control		25° C - Continuous - 40% RH

SITE RATING SHEET (Cont.)

Items Considered	Rating	g Parameters
	Actual	Desired
Emergency Generator		Yes - 30 KDVA (Drive and cryogencis)
Microwave Link		No
Equipment		
Crane		No
Elevator (Telescope)		Yes
Snow Plow		Yes
Vehicles		Yes - with snow blade
Storage Building		Yes $24 \text{ m}^2 (258 \text{ ft}^2)$
Fuel storage (Gen.)		Yes - 7 day supply