

CTA-North On-Site Infrastructure Design and Construction Strategy



David Bristow, 19. July 2017, La Palma

A. Skealies

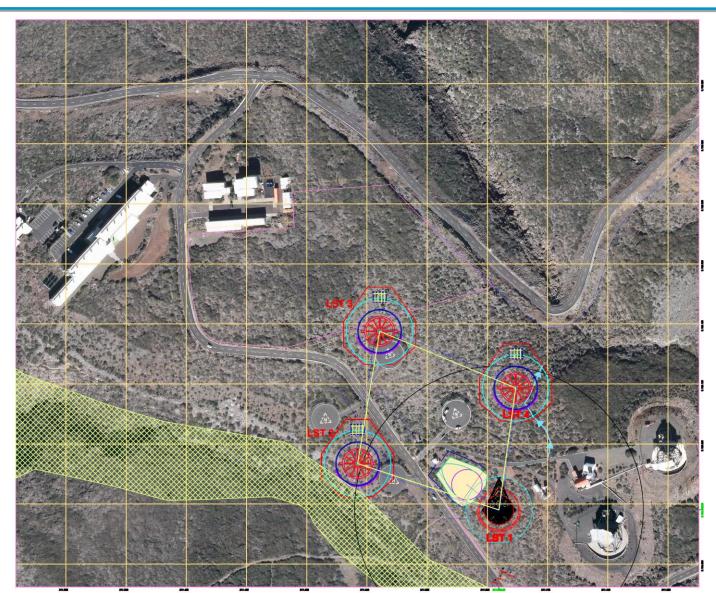
CTA-N Location Plan





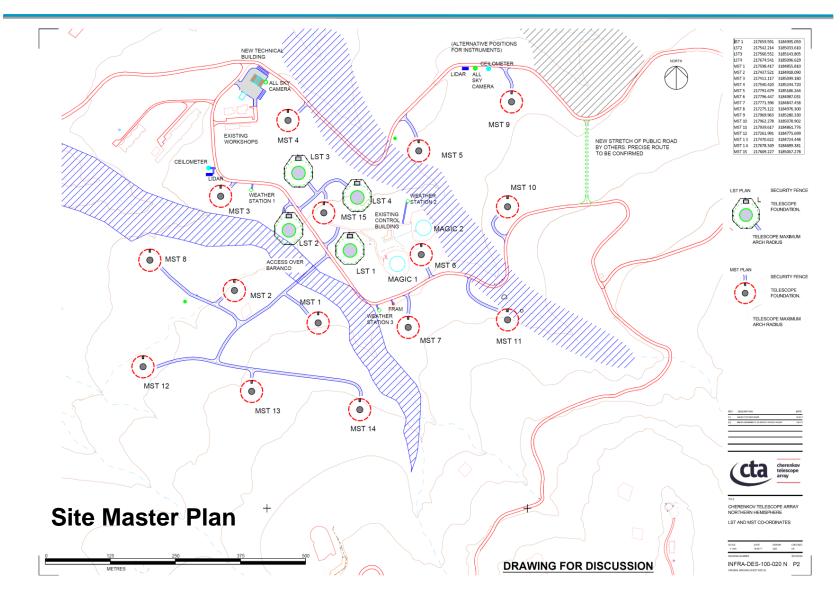
CTA-N Aerial View





CTA-North General Arrangement





Design and Construction Phase 1



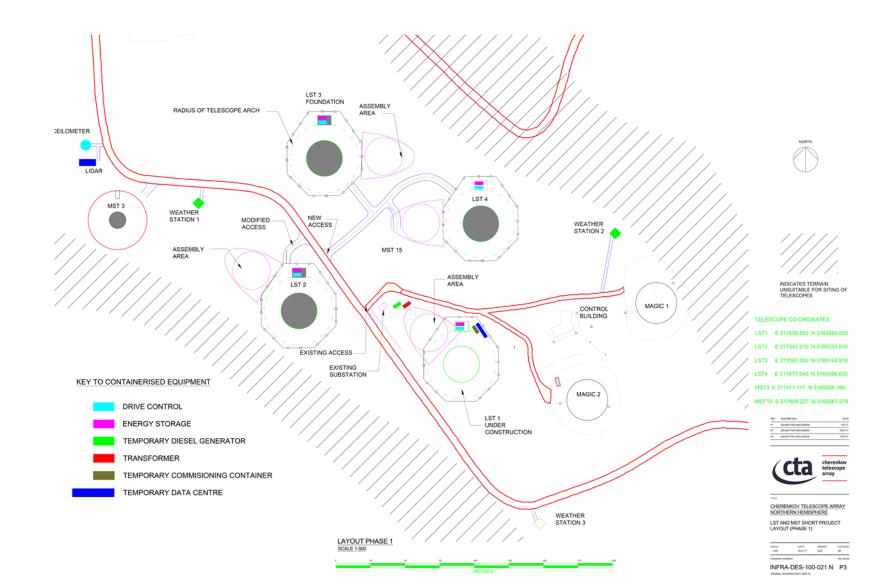
There are two phases to the Design and Construction:

<u>Phase 1</u> the Design and Construction of the 'short project' the central part of the array.

- LST 2-4
- MST 3
- Roads, Power, Data Networks
- Landscaping

Construction - Phase 1





Design and Construction – Phase 2



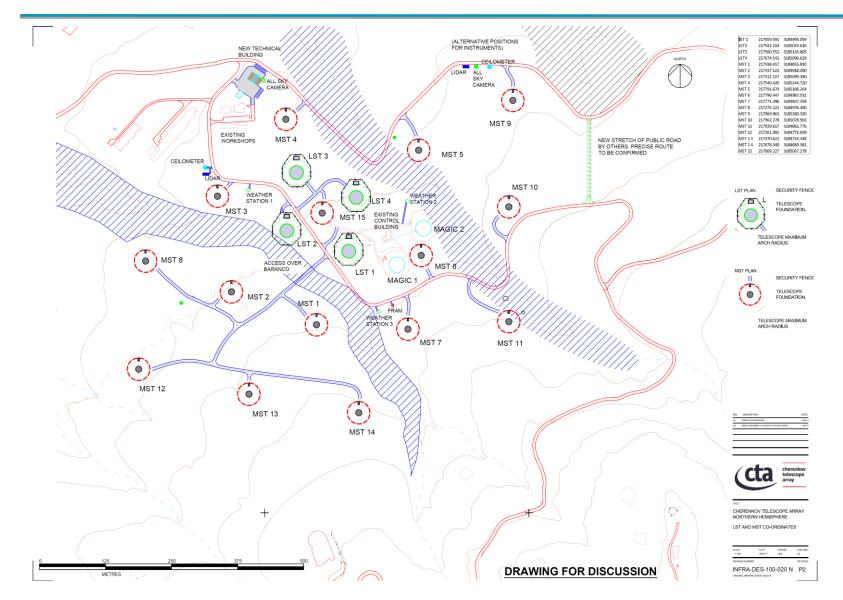
Phase 2 of the Design and Construction:

Phase 2 the 'RIBA 3' study for the site.

- Technical Building
- Remaining MSTs
- Roads
- Power and Data Networks
- Landscaping

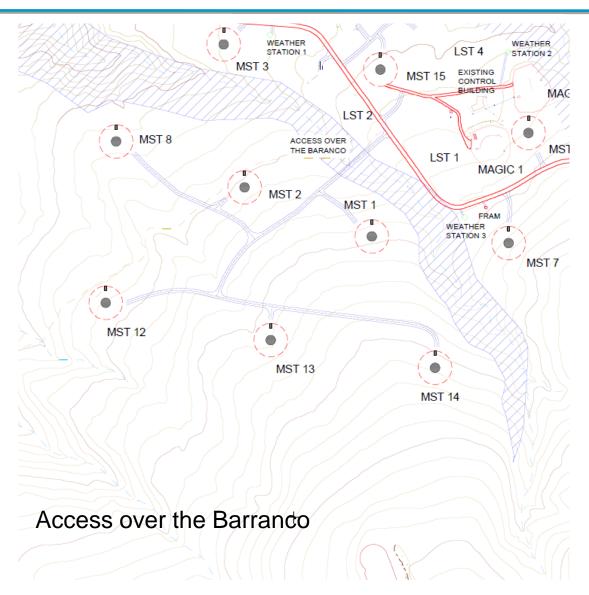
Construction – Phase 2





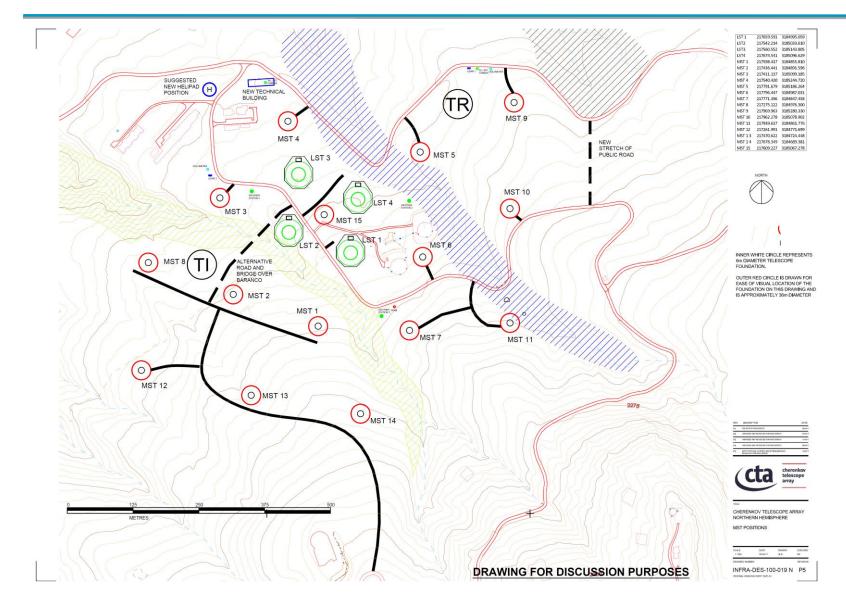
CTA-N Access to the Site Option 1





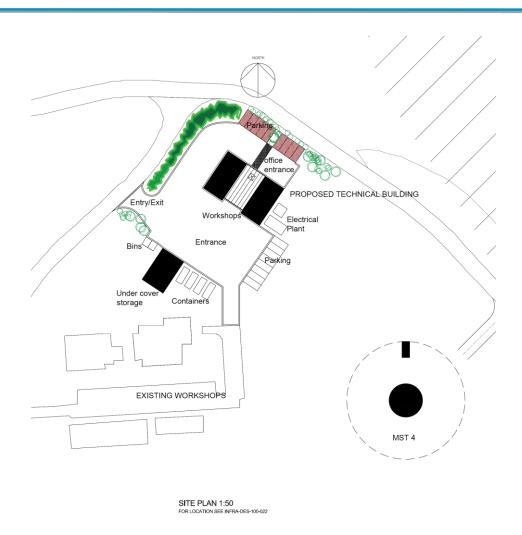
CTA-N Access to the Site Option 2





CTA-North Technical Building





Preliminary Concept for Technical Building and Facilities

Technical Building – Front Elevation





Preliminary Concept

Technical Building – Rear Elevation





Preliminary Concept

CTA-N Schedule



Phase 1 Design Schedule LST, MST 'Short Project' from Q4 2017 to Q4 2018

- Stage 2 permit submission Q1 2019
- Start construction phase 1 Q3 2019
- Complete construction of phase 1 Q2 2021
- Phase 2 Design Q2 2018

North Computing & Network



- Final specifications agreed for the full northern computing & network system
 - 2000 processor cores
 - 3 PB disk space
- Expected to be installed by March 2018



The End





Any Questions?

Thank you.