



cherenkov
telescope
array

CTA-North Power Study Concept Review

Introduction



Meeting Agenda



09:00	→ 09:10	Welcome by the chairperson ⌚ 10m Speaker: David Bristow (CTAO)
09:10	→ 09:20	Introduction to the review ⌚ 10m Speaker: Carla Crovari
09:20	→ 10:00	Power Requirements ⌚ 40m Speakers: Alison Mitchell (Max-Planck-Institut fuer Kernphysik), Jim Hinton (MPIK)
10:00	→ 11:00	Concept Study - Part 1 ⌚ 1h CTA-N Concept study for Power distribution 4 options, part 1 Speaker: Mr. Manfred Engelmann
11:00	→ 11:20	Coffee Break ⌚ 20m
11:20	→ 11:40	Concept Study - Part 2 ⌚ 20m Concept study for Power distribution, 4 options, part 2 Speaker: Mr. Manfred Engelmann
11:40	→ 12:00	List of Interfaces ⌚ 20m Speaker: Carla Crovari
12:00	→ 12:20	List of risks and Hazardous Situations ⌚ 20m Speaker: Carla Crovari
12:20	→ 14:00	Lunch ⌚ 1h 40m
14:00	→ 15:40	Panel Discussion ⌚ 1h 40m Speaker: David Bristow (CTAO)
15:40	→ 16:00	Conclusions ⌚ 20m Speaker: David Bristow (CTAO)



List of Documents

Study for Electrical Power for CTA-North

Concept Design Review Plan for CTA-North

List of Interfaces

Power Note v0.2

180215 Concept Design Review for CTA-North - Answers

Location Plan - Context



Location Plan - At the Observatorio del Roque de los Muchachos.



REV	DESCRIPTION	DATE
P1	Issue for discussion	2017



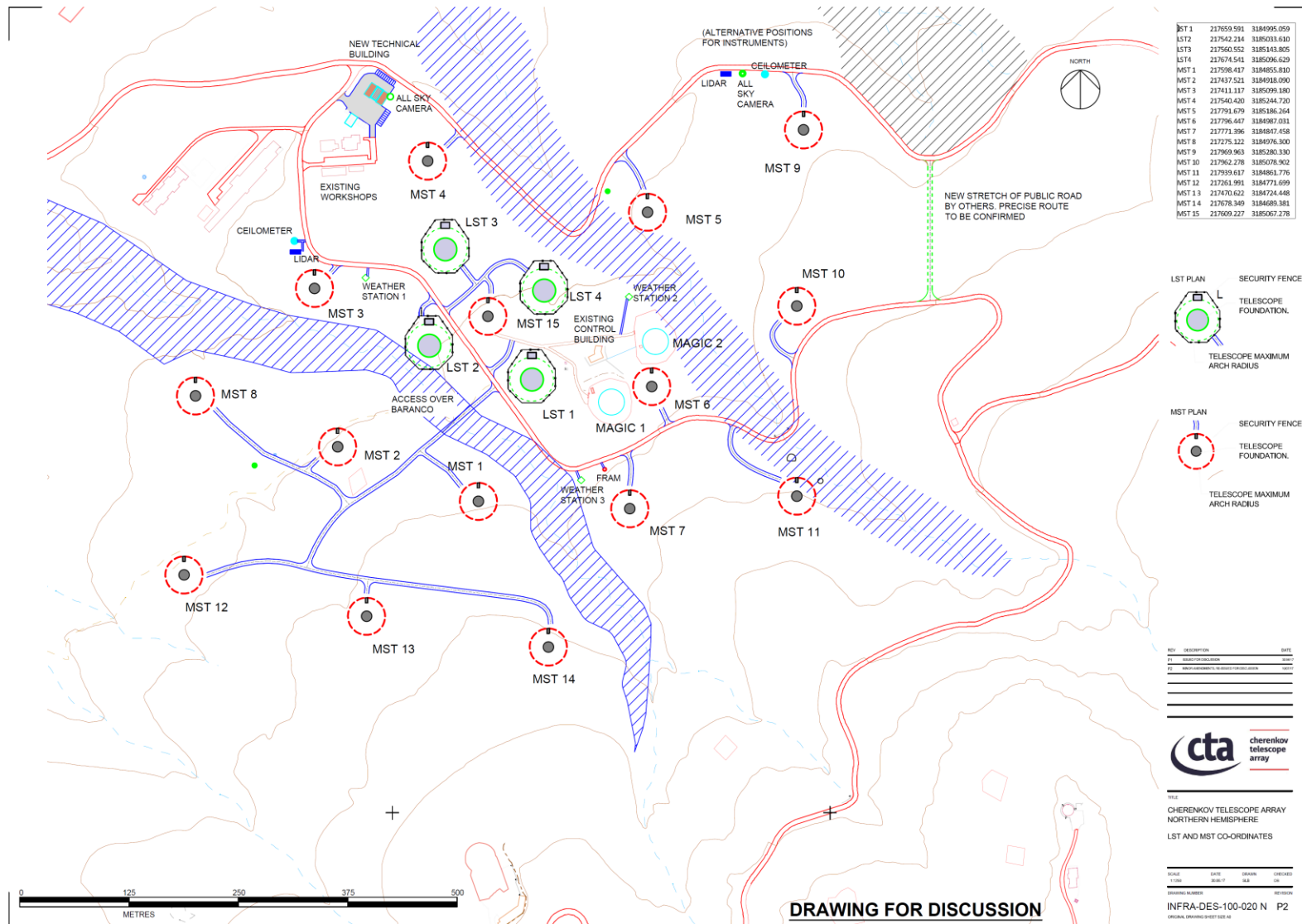
TITLE
**CHERENKOV TELESCOPE ARRAY
 NORTHERN HEMISPHERE
 CTA NORTH MASTER PLAN**

SCALE	DRAWN	CHECKED
1:5000	ESP/ST	DB

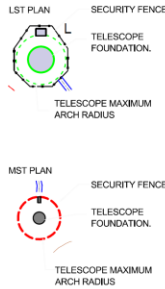
DRAWING NUMBER: **INFRA-DES-100-022 N P1**
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DRAWING FOR DISCUSSION

Master Plan - Site



LST 1	217659.591	3184995.059
LST 2	217542.214	3185033.610
LST 3	217560.552	3185143.805
LST 4	217674.541	3185096.629
MST 1	217596.417	3184655.810
MST 2	217437.521	3184918.090
MST 3	217411.117	3185099.180
MST 4	217540.420	3185244.720
MST 5	217791.679	3185186.264
MST 6	217796.447	3184987.031
MST 7	217771.396	3184847.458
MST 8	217275.122	3184976.300
MST 9	217969.963	3185283.530
MST 10	217962.278	3185078.942
MST 11	217939.617	3184861.776
MST 12	217261.991	3184771.699
MST 13	217470.622	3184724.448
MST 14	217678.349	3184689.381
MST 15	217609.227	3185007.278



REV.	DESCRIPTION	DATE
01	ISSUED FOR DISCUSSION	2017-02-02
02	ISSUED FOR DISCUSSION	2017-02-02



TITLE
CHERENKOV TELESCOPE ARRAY
NORTHERN HEMISPHERE
LST AND MST CO-ORDINATES

SCALE: 1:1000
DATE: 08/17
DRAWN: SJA
CHECKED: OR
DRAWING NO. INFRA-DES-100-020 N P2
REVISION: ORIGINAL DATE 2017-02-02

DRAWING FOR DISCUSSION

Design and Construction Phase 1

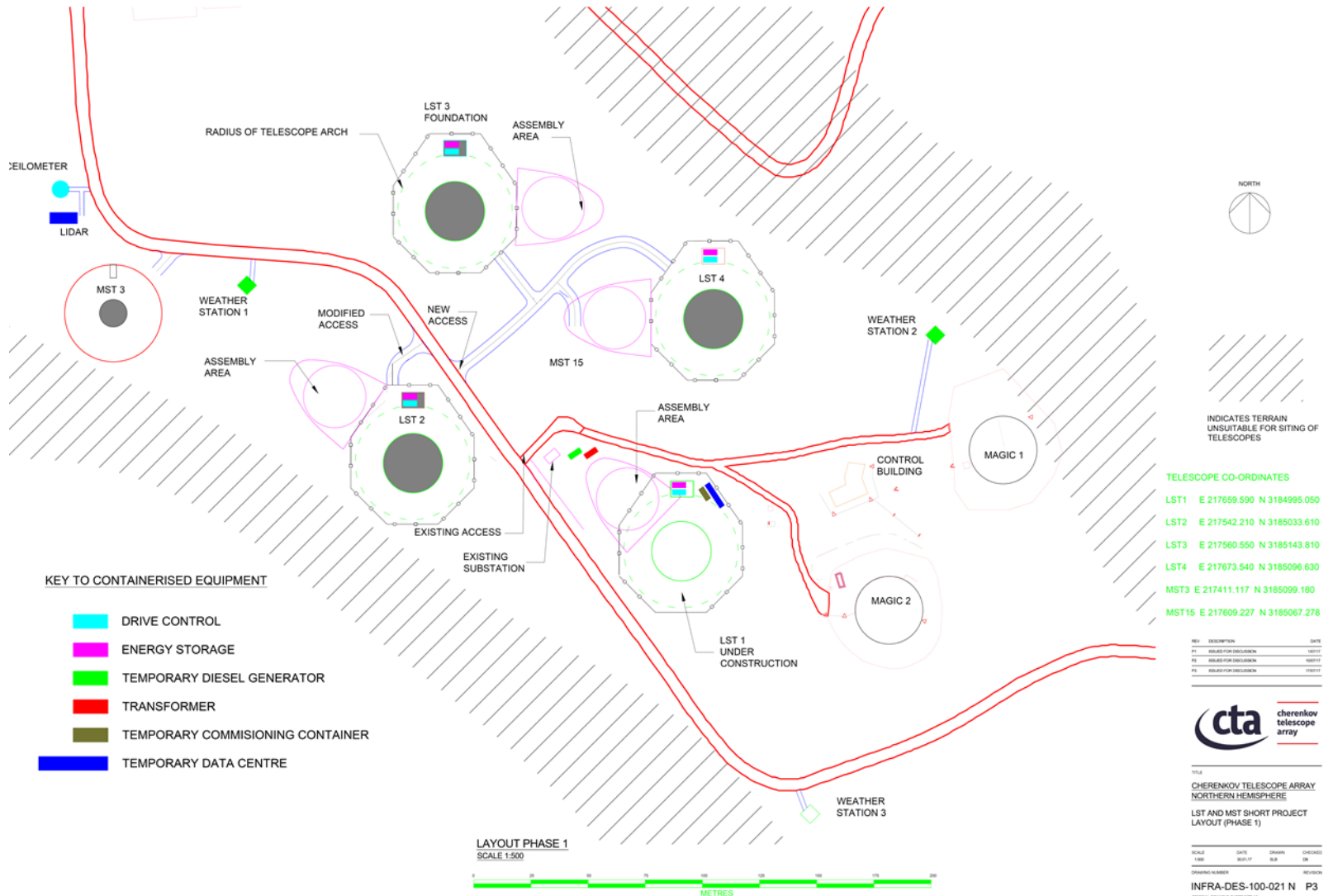


There are two phases to the Design and Construction:

Phase 1 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

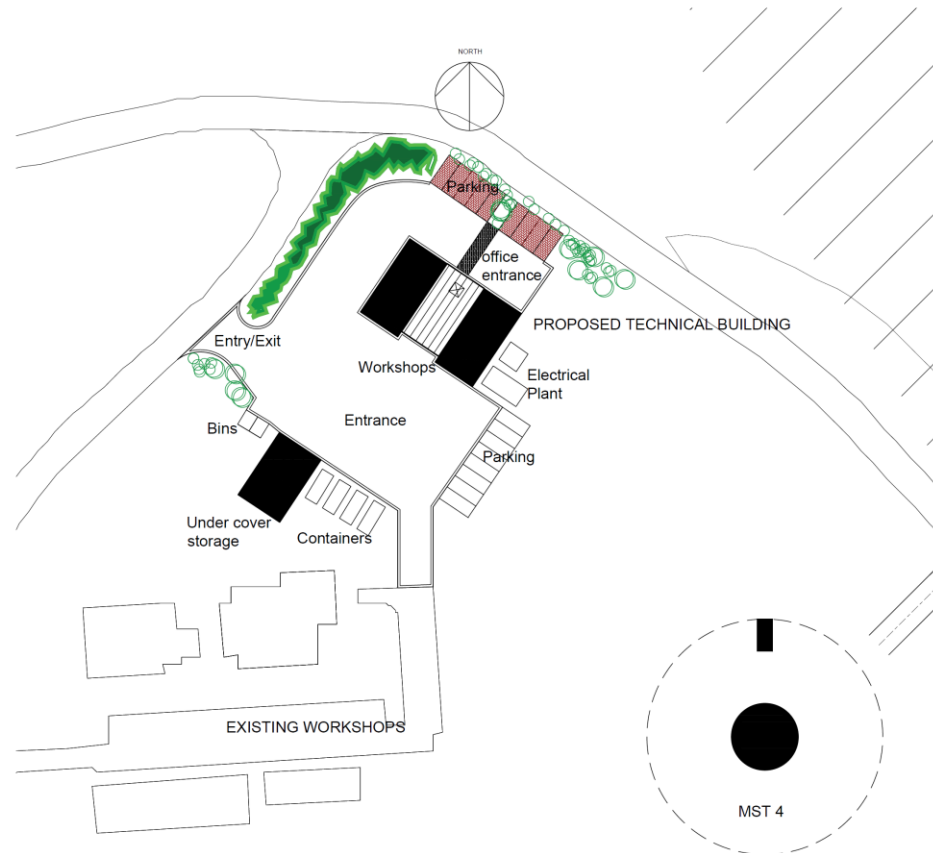


Phase 2 of the Design and Construction:

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

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

CTA-North Technical Building



SITE PLAN 1:50
FOR LOCATION SEE INFRA-DES-100-022

Preliminary Concept for Technical Building and Facilities

Technical Building – Front Elevation



Preliminary Concept

Technical Building – Rear Elevation



Preliminary Concept

The End



Any Questions?

Thank you.