

DATE OF ISSUE

DRAWING PACKAGE VERSION

19.07.24

1

GENERAL

9CVZ-2CWL-5102-T1	COVER SHEET	01							
9CVZ-2CWL-5102-T2	REFERENCE DOCUMENTS	01							
9CVZ-2CWL-5102-C1	SITE SPECIFIC NOTES	01							
9CVZ-2CWL-5102-C2	OVERALL SITE PLAN	01							
9CVZ-2CWL-5102-C3	SITE SETOUT PLAN	01							
9CVZ-2CWL-5102-C4	SITE ELEVATION AND DETAILS	01							
9CVZ-2CWL-5102-C4-1	STRUCTURE EQUIPMENT DETAIL EXPANDED VIEW	01							

ELECTRICAL

RF AND TX CONFIGURATIONS

9CVZ-2CWL-5102-A1	NBN ANTENNA CONFIGURATION	01							
9CVZ-2CWL-5102-A2	NBN ANTENNA SETOUT PLAN	01							

DESIGN DOCUMENTS

DISTRIBUTION

DOWNER	IBRAHIM TURKMEN	1							
NBN	SHAIL GOPANI	1							

SITE CODE: 2CWL-51-02-BNDA
BINDA

117 KANGALOO LAH ROAD,
BINDA
NSW 2583

RFNSA No: TBC



Australia's
broadband
network

Client:



Client:

Client:

Project:

NATIONAL BROADBAND
NETWORK
SITE No: 9CVZ-2CWL-5102
BINDA
117 KANGALOO LAH ROAD,
BINDA
NSW 2583

PRELIMINARY

01	19.07.24	PRELIMINARY ISSUE	JM
Rev	Date	Revision Details	CAD



DRAFTED BY: AR
CHECKED BY: IT
APPROVED BY: SG

Drawing Title:
COVER SHEET

Drawing No.	Revision
9CVZ-2CWL-5102-T1	01

DATE OF ISSUE

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NBN STANDARD DOCUMENTS

NBN-STD-0001	STANDARD CONSTRUCTION NOTES	E						
NBN-STD-0003	TYPICAL GROUND LAYOUT LATTICE TOWER	D						
NBN-STD-0004	GENERIC MONOPOLE AND LATTICE TOWER LOADING CONDITIONS	D						
NBN-STD-0006	TYPICAL LATTICE TOWER FOUNDATION	D						
NBN-STD-0009-SHT 1	TYPICAL LATTICE TOWER HEADFRAME EXAMPLES	E						
NBN-STD-0009-SHT 3	TYPICAL MONOPOLE HEADFRAME LAYOUT SHEET 3	E						
NBN-STD-0011	TYPICAL 1200-1800 PARABOLIC ANTENNA MOUNTING DETAILS - TOWER	D						
NBN-STD-0012	STANDARD COMPOUND FENCING DETAILS	F						
NBN-STD-0013	STANDARD CABLE LADDER WATERFALL DETAILS	G						
NBN-STD-0014	STANDARD ELEVATED CABLE LADDER SUPPORT POST DETAILS	G						
NBN-STD-0016-SHT 1	STANDARD ODC BASE FRAME DETAILS	F						
NBN-STD-0016-SHT 4	ENCLOSURE E6150 ODC BASE FRAME DETAILS	B						
NBN-STD-0016-SHT 5	B158 ODC BASE FRAME DETAILS	B						
NBN-STD-0017	STANDARD ODC SUPPORT SLAB DETAILS	G						
NBN-STD-0019	STANDARD SITE EARTHING LATTICE TOWER	E						
NBN-STD-0021-SHT 1	STANDARD EARTHING BAR DETAILS	D						
NBN-STD-0021-SHT 2	SEB ALLOCATION TABLE - SHEET A	C						
NBN-STD-0021-SHT 3	SEB ALLOCATION TABLE - SHEET 2	A						
NBN-STD-0022	STANDARD METER BOX-H-FRAME DETAILS	E						
NBN-STD-0027-SHT 5	PDB LAYOUT	B						
NBN-STD-0027-SHT 14	STANDARD PDB/ METERING SCHEMATIC - E6150	A						
NBN-STD-0027-SHT 17	STANDARD NBN ANTENNA EME PATTERNS AIR6419 B40	A						
NBN-STD-0030-SHT 11	STANDARD NBN ANTENNA EME PATTERNS AIR3219 B42	A						
NBN-STD-0030-SHT 15	STANDARD NBN ANTENNA EME PATTERNS AIR5322 N257	A						
NBN-STD-0033	ODC MOUNTED ON FOUNDATION	C						
NBN-STD-0034-SHT 4	STANDARD ODC SLAB WITH MOUNTED H-FRAME	F						
NBN-STD-0036	GPS ANTENNA MOUNT DETAILS	A						

REFERENCE DOCUMENTS

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NATIONAL BROADBAND
NETWORK
SITE No: 9CVZ-2CWL-5102
BINDA
117 KANGALOO LAH ROAD,
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NSW 2583

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APPROVED BY:	SG

Drawing Title:
**REFERENCE
DOCUMENTS**

Drawing No.	Revision
9CVZ-2CWL-5102-T2	01

SITE INFORMATION:

1. SITE ADDRESS
117 KANGALLOOLAH ROAD, BINDA, NSW 2583.
LATITUDE: -34.318843°; LONGITUDE: 149.375127°.
2. GENERAL
THE CONTRACTOR SHALL COMPLY WITH ALL RELEVANT NBN CONSTRUCTION STANDARDS, AUSTRALIAN STANDARDS AND SPECIFICATIONS.
3. SITE ACCESS
FROM THE CENTRE OF TOWNSHIP OF BINDA HEAD NORTH ON QUEEN STREET FOR 330m. TURN RIGHT ONTO BISHOP STREET AND FOLLOW FOR 1.1KM AND THE ACCESS DRIVEWAY WILL BE ON THE LEFT.
4. EQUIPMENT
NEW NBN OUTDOOR CABINETS E6150 (1-OFF) AND B158 (1-OFF) ON NEW CONCRETE SLAB WITHIN NBN COMPOUND.
5. STRUCTURE
NEW NBN 60m HIGH LATTICE TOWER.
6. ANTENNA ACCESS
NEW ANTENNA ACCESS VIA NEW LATTICE TOWER MOUNTED ACCESS LADDER WITH FALL ARREST OR EWP (BY QUALIFIED PERSONNEL ONLY).
7. EXISTING SERVICES
THE CONTRACTOR SHALL IDENTIFY AND CONFIRM THE LOCATION OF ALL RELEVANT EXISTING SERVICES AS REQUIRED PRIOR TO THE COMMENCEMENT OF WORKS.
8. EXISTING SITE HAZARDS
THE FOLLOWING HAZARDS ARE PRESENT ON SITE:
- ELECTRICAL CABLING AND/OR TRIP HAZARDS
- MANUAL HANDLING
- WORKING AT HEIGHT
- EME EXCLUSION ZONES OF ANTENNAS ON FACILITY. REFER TO RFNSA FOR DETAILS.
9. ELECTRICAL SUPPLY
REFER TO SHEETS C2 & C3 FOR DETAILS.
10. TRANSMISSION LINK & RF CONFIGURATION
REFER NBN ANTENNA CONFIGURATION ON DRG. 9CVZ-2CWL-5102-A1 FOR DETAILS.
11. SITE EARTHING
NBN EQUIPMENT AND STRUCTURE EARTHING IS TO BE INSTALL NEW IN ACCORDANCE WITH LATEST AS/NZS 1768, NBN STANDARD DRAWINGS NBN-STD-0019 AND NBN-STD-0020-SHT2.
12. LATTICE TOWER WIND LOAD PARAMETERS

SITE TOPOGRAPHIC DATA		
REGION	TERRAIN CATEGORY	TOPOGRAPHIC MULTIPLIER (M†)
XXX	XXX	XXX

13. SITE SIGNAGE REQUIREMENTS
NBN EQUIPMENT SIGNAGE SHALL COMPLY WITH NBN RAN DOCUMENT AND NBN STANDARD DRAWING NBN-STD-0025.
14. NEW SCOPE OF WORKS:

TX SCOPE:
CROOKWELL:
- INSTALL NEW NBN MOUNT (1-OFF)
- INSTALL NEW NBN Ø900 PARABOLIC ANTENNA (1-OFF) ON NEW MOUNT
- INSTALL NEW NBN RAU (2-OFF) ON NEW MOUNTS

RF SCOPE:
- INSTALL NEW NBN PANEL ANTENNA (6-OFF; 1-OFF EACH FOR SECTORS 1, 2, B1, B2, K1 & K2) ON NEW MOUNTS
- INSTALL NEW NBN CORE 6/12 (1-OFF) AND 9/18 (1-OFF) HYBRID FEEDER CABLE AND CANISTER (2-OFF) IN NEW CABLE ROUTE IN PIGGY BACK FASHION
REFER TO CERTIFICATE XXX FOR DETAILS.

GROUND SCOPE:
- INSTALL NEW NBN RP6651 (2-OFF)
- INSTALL NEW GPS UNIT (1-OFF)
- INSTALL NEW CONCRETE SLAB FOR NEW NBN OUTDOOR CABINETS
- INSTALL NEW NBN OUTDOOR CABINET E6150 (1-OFF) ON NEW CONCRETE SLAB
- INSTALL NEW NBN OUTDOOR CABINET B158 (1-OFF) ON NEW CONCRETE SLAB
- INSTALL NEW NBN PDB ON H-FRAME
- INSTALL NEW NBN 300mm WIDE CABLE TRAY BETWEEN CABINETS.

EARTHING SCOPE
- ALL NEW EQUIPMENT TO BE EARTHED IN ACCORDANCE WITH NBN-STD-0019, NBN-STD-0021-SHT 1 AND NBN-STD-0021-SHT 3



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PRELIMINARY

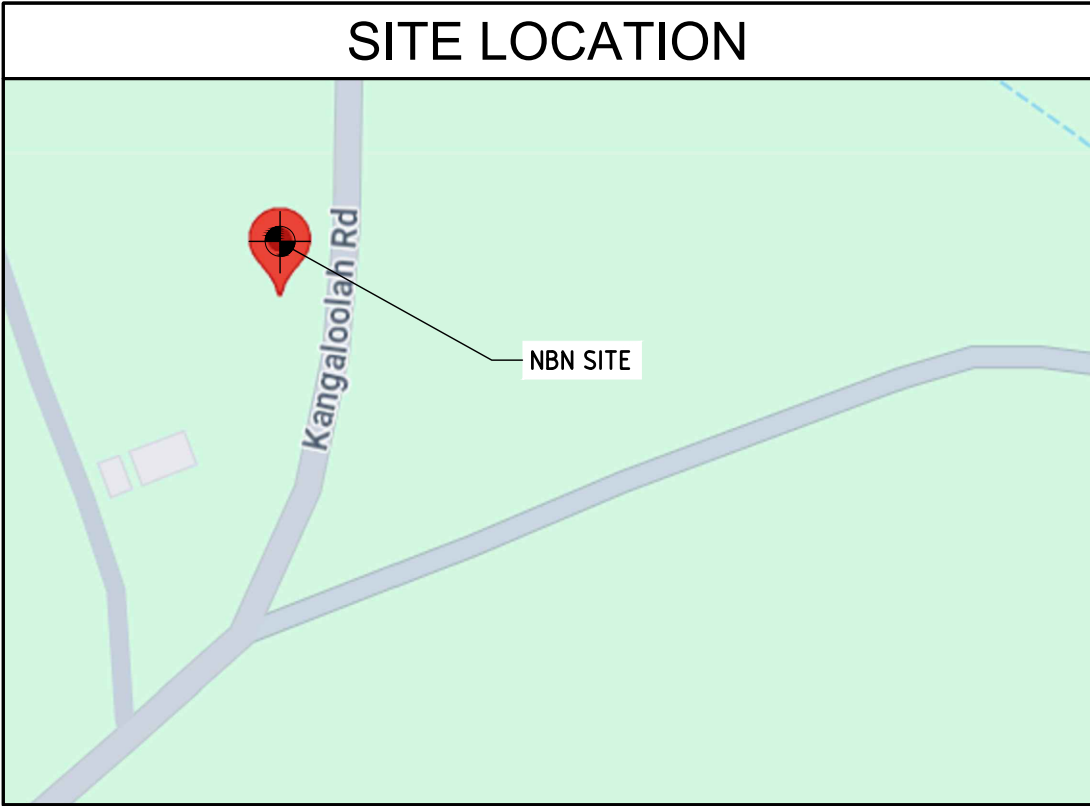
01	19.07.24	PRELIMINARY ISSUE	JM
Rev	Date	Revision Details	CAD



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APPROVED BY: SG

Drawing Title:
SITE SPECIFIC NOTES

Drawing No.	Revision
9CVZ-2CWL-5102-C1	01



REPRODUCED WITH PERMISSION FROM <https://maps.google.com>

DBY JOB NO. 37107666
ENQUIRE DATE: 11/07/24
CONTRACTOR TO REVALIDATE
AT TIME OF CONSTRUCTION

SITE CO-ORDINATES	
LATTICE TOWER	
DATUM: MGA (GDA94)	ZONE: 55
LATITUDE	-34.318843°
LONGITUDE	149.375127°
EASTING	7 185 37.92
NORTHING	6 199 935.77



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Rev	Date	Revision Details	CAD

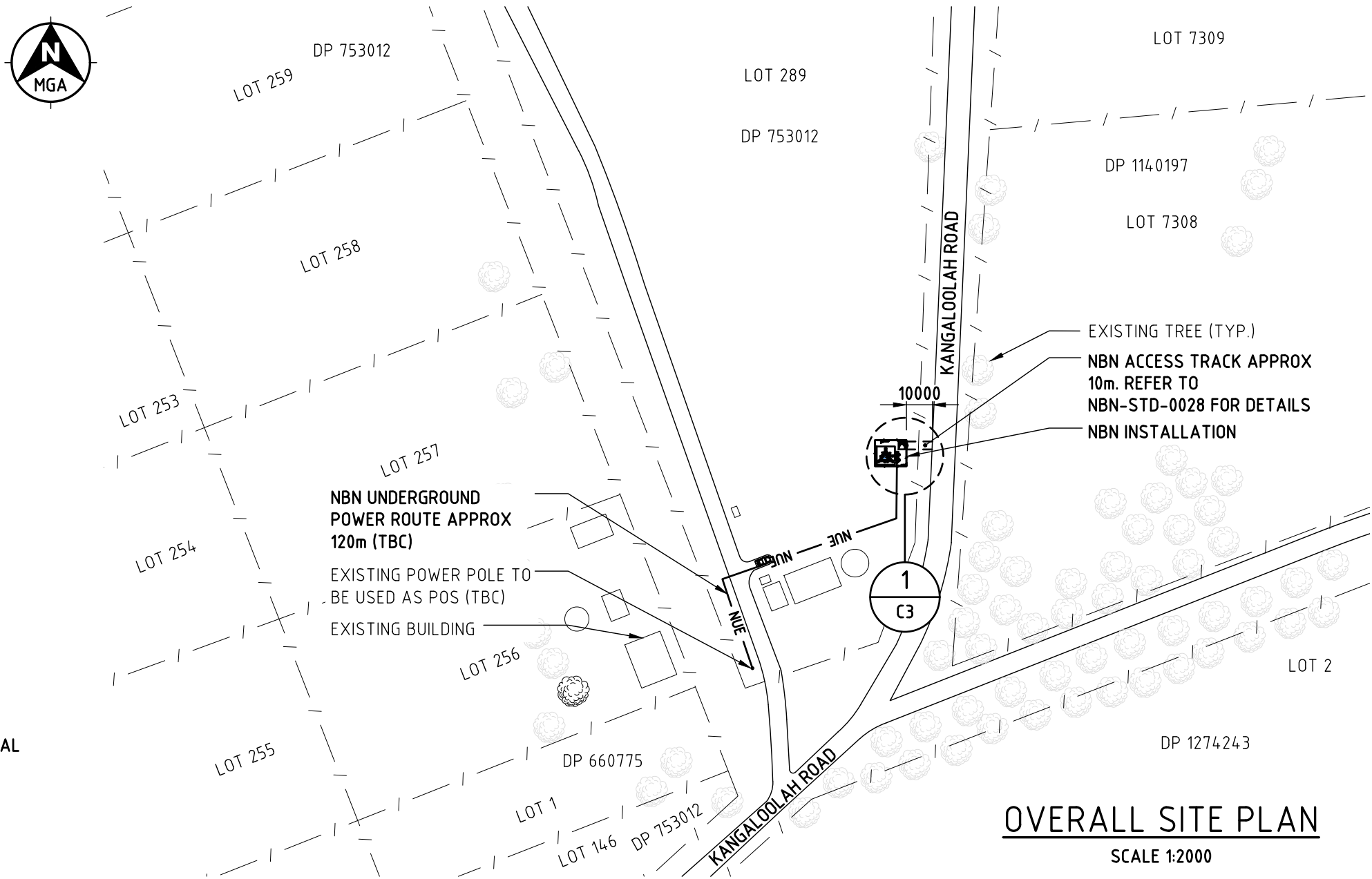


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APPROVED BY: SG

Drawing Title:
**OVERALL SITE
PLAN**

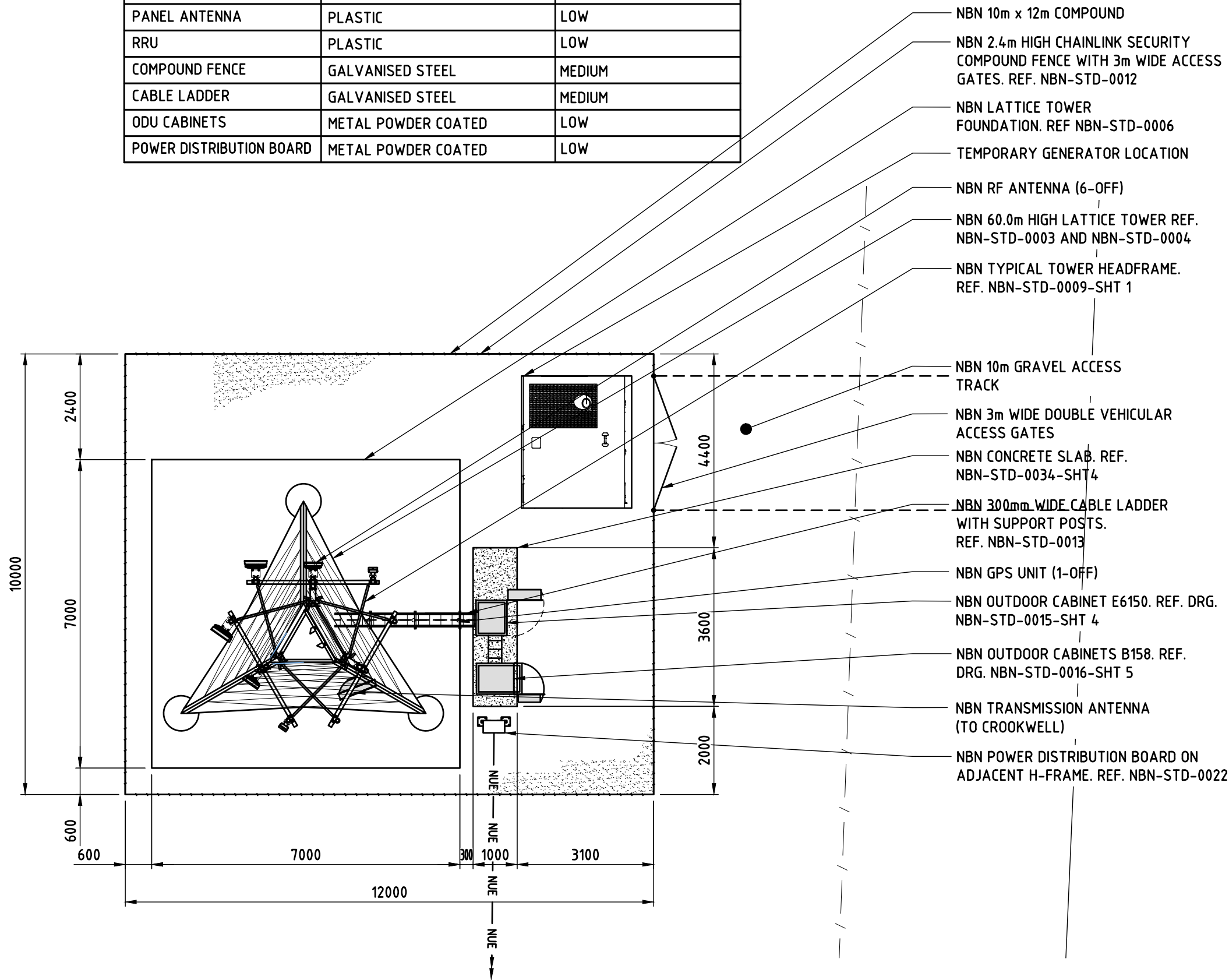
Drawing No. 9CVZ-2CWL-5102-C2	Revision 01
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- LEGEND**
- PROPERTY BOUNDARY
 - NUE — NUE — NBN UNDERGROUND ELECTRICAL
 - / / FENCE LINE
 - E NBN ELECTRICAL CABLE PIT
 - BUILDING



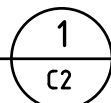


NBN EQUIPMENT EXTERNAL COLOUR SCHEDULE		
FEATURE	EXTERNAL MATERIAL	LEVEL OF REFLECTIVITY
LATTICE TOWER	GALVANISED STEEL OR CONCRETE	LOW
MOUNTING BRACKETS & PIPES	GALVANISED STEEL	MEDIUM
HEADFRAME	GALVANISED STEEL	MEDIUM
PANEL ANTENNA	PLASTIC	LOW
RRU	PLASTIC	LOW
COMPOUND FENCE	GALVANISED STEEL	MEDIUM
CABLE LADDER	GALVANISED STEEL	MEDIUM
ODU CABINETS	METAL POWDER COATED	LOW
POWER DISTRIBUTION BOARD	METAL POWDER COATED	LOW



NOTES:
- REF. 9CVZ-2CWL-5102-A1 TO A2 FOR RF, TRANSMISSION AND GPS ANTENNA DETAILS.
- RAUS AND RRUS NOT SHOWN FOR CLARITY.

DETAIL
SCALE 1:100



Client:



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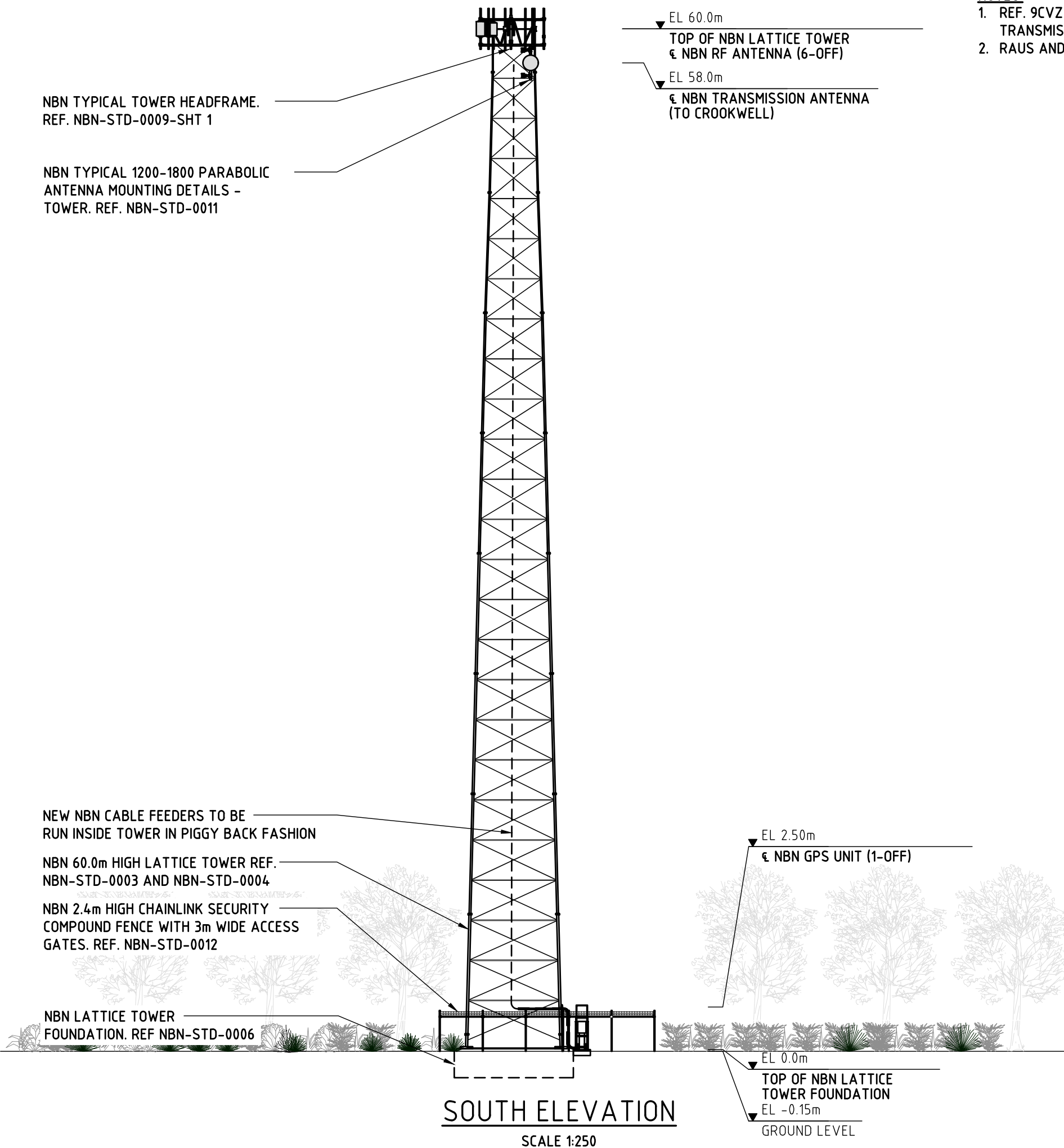
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Downer
Relationships creating success

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Drawing Title:
**SITE SETOUT
PLAN**

Drawing No.	Revision
9CVZ-2CWL-5102-C3	01



- NOTES:**
- 1. REF. 9CVZ-2CWL-5102-A1 TO A2 FOR RF, TRANSMISSION AND GPS ANTENNA DETAILS.
 - 2. RAUS AND RRUS NOT SHOWN FOR CLARITY.



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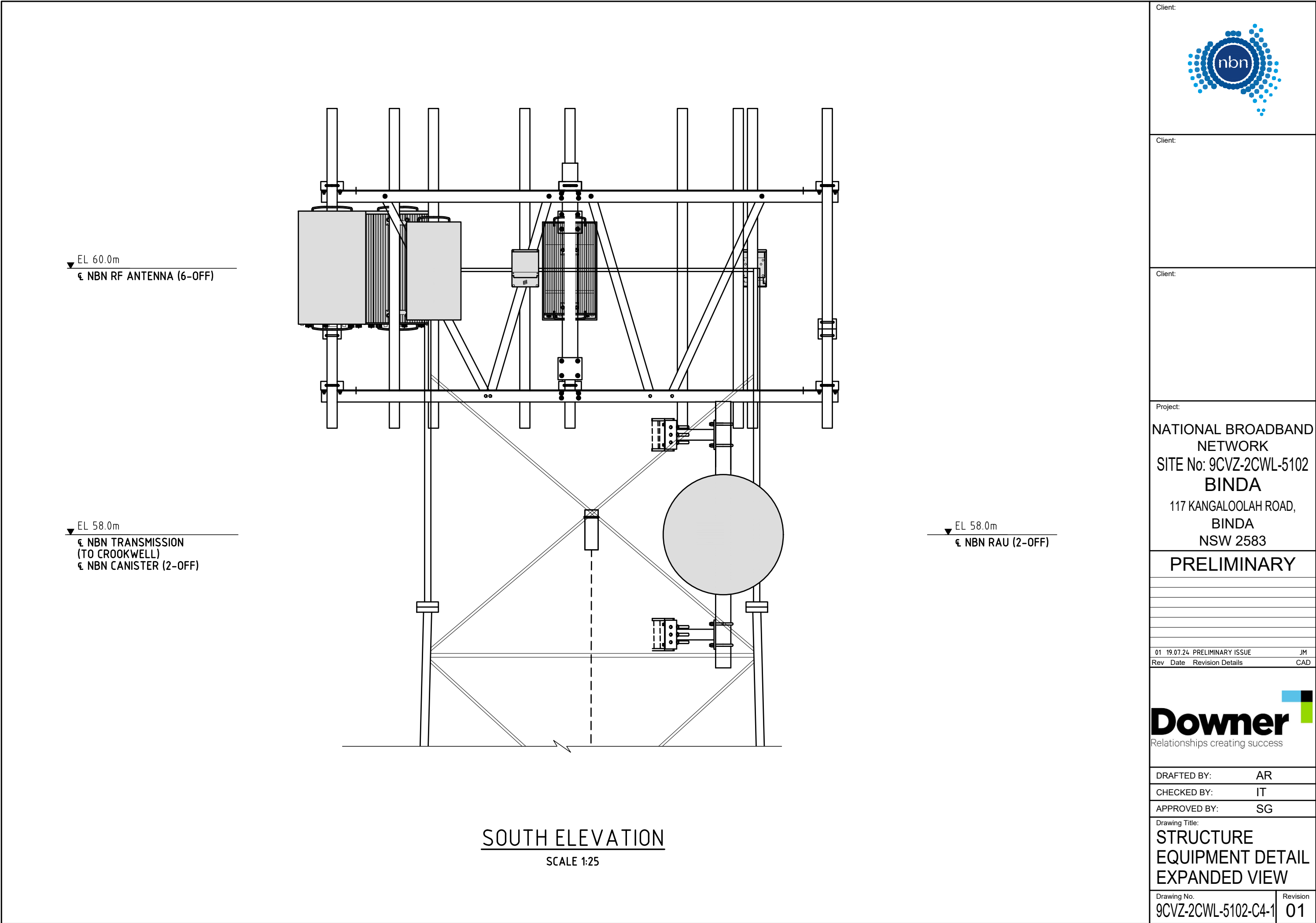
Relationships creating success

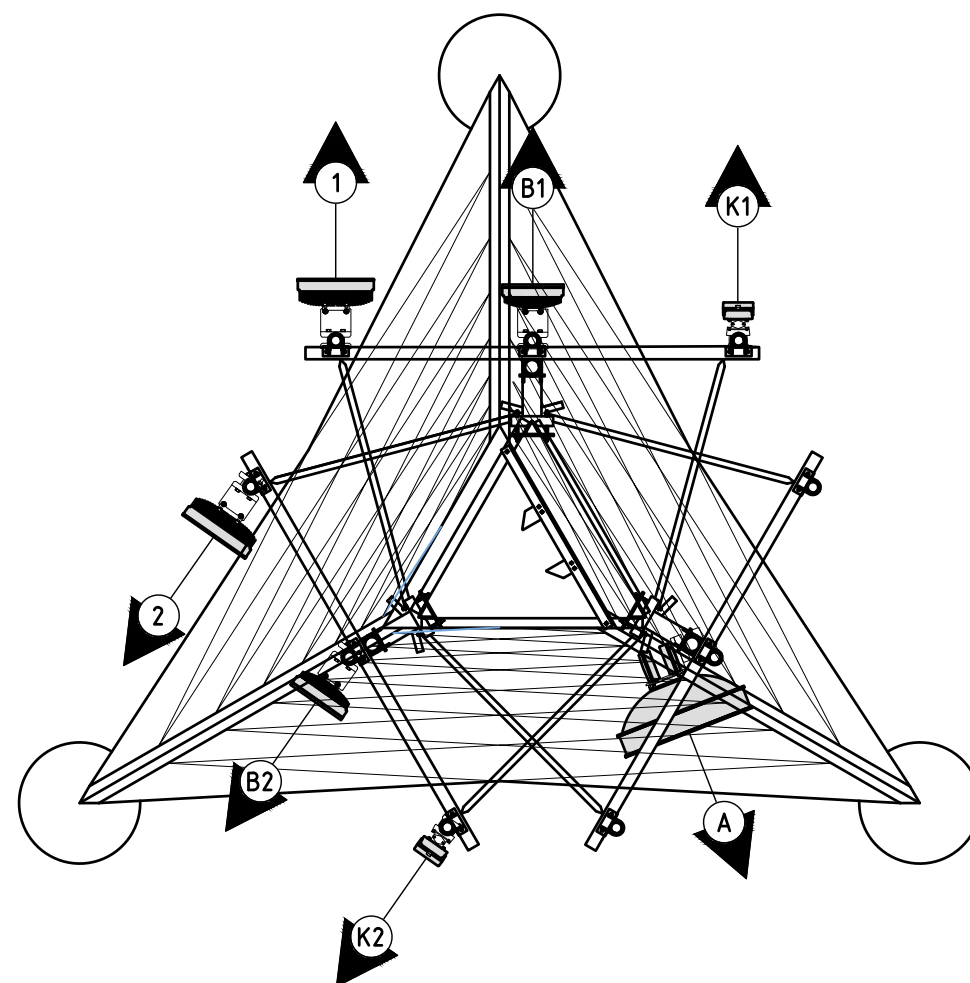
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APPROVED BY:	SG

Drawing Title:

SITE ELEVATION AND DETAILS

Drawing No.	Revision
9CVZ-2CWL-5102-C4	01





SCALE 1:50



Client:	
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**NATIONAL BROADBAND
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Downer
Relationships creating success

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Drawing Title:

NBN ANTENNA SETOUT PLAN

Drawing No.
9CVZ-2CWL-5102-A2

Revision	01
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