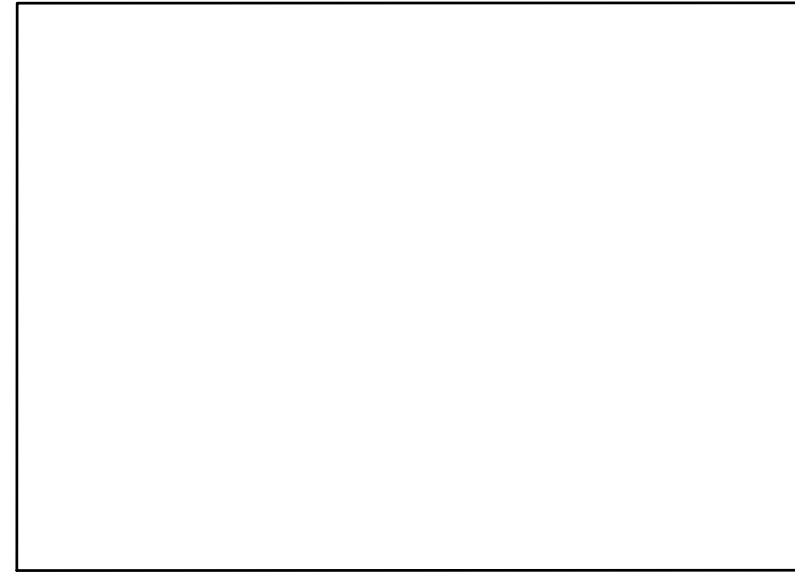




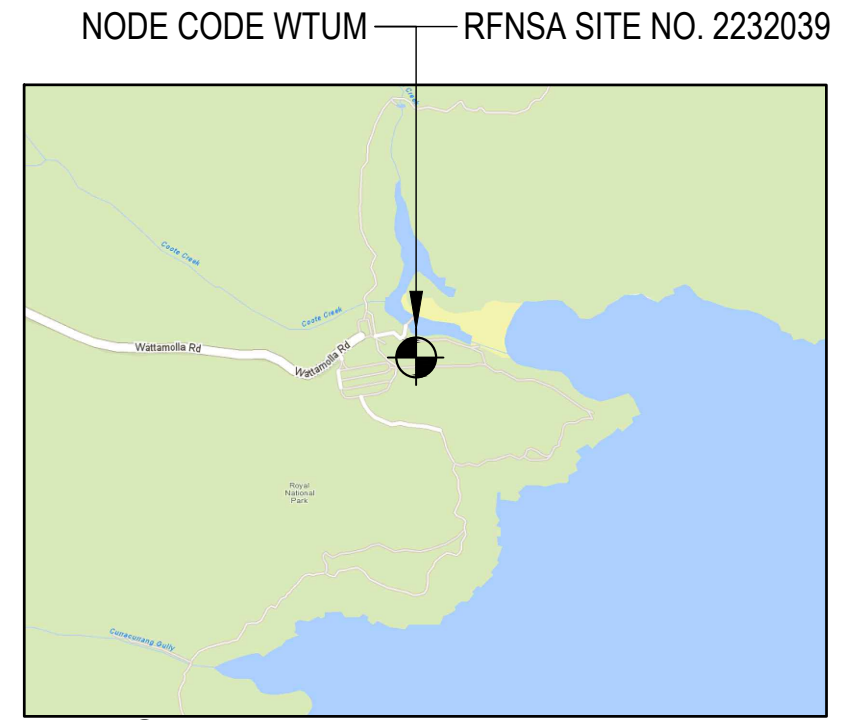
PRE-CONSTRUCTION PHOTO



POST CONSTRUCTION PHOTO

DRAWING / DOCUMENT DESCRIPTION	DRAWING NUMBER	SHEET NO.	ISSUE NO.	ISSUE DATE	DRAWING STATUS		
					FOR CONSTRUCTION	AS BUILT	REFERENCE ONLY
PHOTOS AND SITE LAYOUT - SHEET 1 OF 2	N111896	2	1	08/11/23	✓		
PHOTOS AND SITE LAYOUT - SHEET 2 OF 2	N111896	2-1	1	08/11/23	✓		
ELEVATION AND PHOTOS	N111896	3	1	08/11/23	✓		
EME EXCLUSION ZONES	N111896	4	1	08/11/23	✓		
SITE EARTHING	N111896	G4	1	08/11/23	✓		
ELECTRICAL SPECIFICATION	N111896	E0	1	08/11/23	✓		
AC POWER CONNECTION	N111896	E2	1	08/11/23	✓		
RACK LAYOUT	N111896	E5	1	08/11/23	✓		
ERICSSON CABINET	N111896	E5-1	1	08/11/23	✓		
MONOPOLE FOUNDATION DETAILS - SHEET 1 OF 2	N111896	T2	1	08/11/23	✓		
MONOPOLE FOUNDATION DETAILS - SHEET 2 OF 2	N111896	T2-1	1	08/11/23	✓		

FOR DESIGN, CONSTRUCTION AND STANDARD DRAWINGS - REFER TO FIDO DOCUMENTATION



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**LOCALITY PLAN**  
 NOT TO SCALE

**UNAPPROVED DRAWING**

**COMPLIANCE BOX**  
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 ALTERATIONS IN RED   
 NAME (PRINT) \_\_\_\_\_  
 SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**FOR CONSTRUCTION**

**PROPERTY DESCRIPTION**

LOT 20 ON DP752018  
 LGA: SUTHERLAND SHIRE

**ASSET DESCRIPTION**

STRUCTURE OWNER - TELSTRA  
 STRUCTURE TYPE - 20m SEESAW  
 INGAL STEEL POLE

SITE STRUCTURE CO-ORDINATES (GDA94) GPS READING ACCURACY: ±10m CENTRE OF POLE	
LATITUDE	-34.13841° (GDA94)
LONGITUDE	151.11532° (GDA94)



SHEET MUST BE PLOTTED IN COLOUR.  
 TO BE READ IN CONJUNCTION WITH SHEETS 1-1, 2, 2-1, 3, 4.

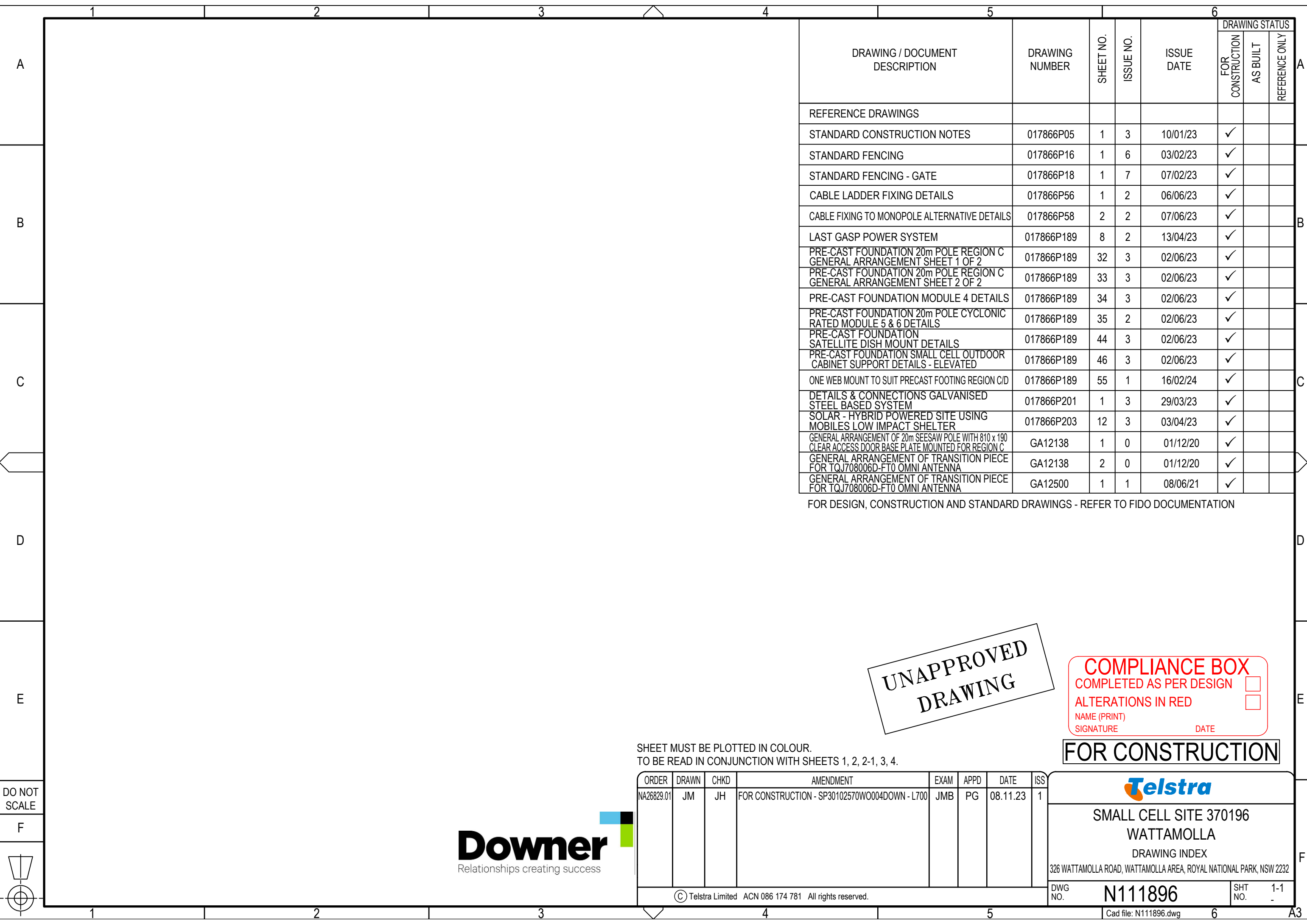
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NA26829.01	JM	JH	FOR CONSTRUCTION - SP30102570WO004DOWN - L700	JMB	PG	08.11.23	1

**Telstra**

**SMALL CELL SITE 370196  
 WATTAMOLLA**

PHOTOS AND LOCALITY PLAN  
 326 WATTAMOLLA ROAD, WATTAMOLLA AREA, ROYAL NATIONAL PARK, NSW 2232

DWG NO. **N111896** SHT NO. 1



DRAWING / DOCUMENT DESCRIPTION	DRAWING NUMBER	SHEET NO.	ISSUE NO.	ISSUE DATE	DRAWING STATUS		
					FOR CONSTRUCTION	AS BUILT	REFERENCE ONLY
REFERENCE DRAWINGS							
STANDARD CONSTRUCTION NOTES	017866P05	1	3	10/01/23	✓		
STANDARD FENCING	017866P16	1	6	03/02/23	✓		
STANDARD FENCING - GATE	017866P18	1	7	07/02/23	✓		
CABLE LADDER FIXING DETAILS	017866P56	1	2	06/06/23	✓		
CABLE FIXING TO MONOPOLE ALTERNATIVE DETAILS	017866P58	2	2	07/06/23	✓		
LAST GASP POWER SYSTEM	017866P189	8	2	13/04/23	✓		
PRE-CAST FOUNDATION 20m POLE REGION C GENERAL ARRANGEMENT SHEET 1 OF 2	017866P189	32	3	02/06/23	✓		
PRE-CAST FOUNDATION 20m POLE REGION C GENERAL ARRANGEMENT SHEET 2 OF 2	017866P189	33	3	02/06/23	✓		
PRE-CAST FOUNDATION MODULE 4 DETAILS	017866P189	34	3	02/06/23	✓		
PRE-CAST FOUNDATION 20m POLE CYCLONIC RATED MODULE 5 & 6 DETAILS	017866P189	35	2	02/06/23	✓		
PRE-CAST FOUNDATION SATELLITE DISH MOUNT DETAILS	017866P189	44	3	02/06/23	✓		
PRE-CAST FOUNDATION SMALL CELL OUTDOOR CABINET SUPPORT DETAILS - ELEVATED	017866P189	46	3	02/06/23	✓		
ONE WEB MOUNT TO SUIT PRECAST FOOTING REGION C/D	017866P189	55	1	16/02/24	✓		
DETAILS & CONNECTIONS GALVANISED STEEL BASED SYSTEM	017866P201	1	3	29/03/23	✓		
SOLAR - HYBRID POWERED SITE USING MOBILES LOW IMPACT SHELTER	017866P203	12	3	03/04/23	✓		
GENERAL ARRANGEMENT OF 20m SEESAW POLE WITH 810 x 190 CLEAR ACCESS DOOR BASE PLATE MOUNTED FOR REGION C	GA12138	1	0	01/12/20	✓		
GENERAL ARRANGEMENT OF TRANSITION PIECE FOR TQJ708006D-FTO OMNI ANTENNA	GA12138	2	0	01/12/20	✓		
GENERAL ARRANGEMENT OF TRANSITION PIECE FOR TQJ708006D-FTO OMNI ANTENNA	GA12500	1	1	08/06/21	✓		

FOR DESIGN, CONSTRUCTION AND STANDARD DRAWINGS - REFER TO FIDO DOCUMENTATION

UNAPPROVED  
DRAWING

**COMPLIANCE BOX**

COMPLETED AS PER DESIGN

ALTERATIONS IN RED

NAME (PRINT) \_\_\_\_\_

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

FOR CONSTRUCTION

SHEET MUST BE PLOTTED IN COLOUR.  
TO BE READ IN CONJUNCTION WITH SHEETS 1, 2, 2-1, 3, 4.

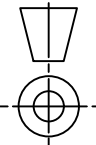
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NA26829.01	JM	JH	FOR CONSTRUCTION - SP30102570WO004DOWN - L700	JMB	PG	08.11.23	1

**SMALL CELL SITE 370196  
WATTAMOLLA  
DRAWING INDEX**

326 WATTAMOLLA ROAD, WATTAMOLLA AREA, ROYAL NATIONAL PARK, NSW 2232



DO NOT SCALE



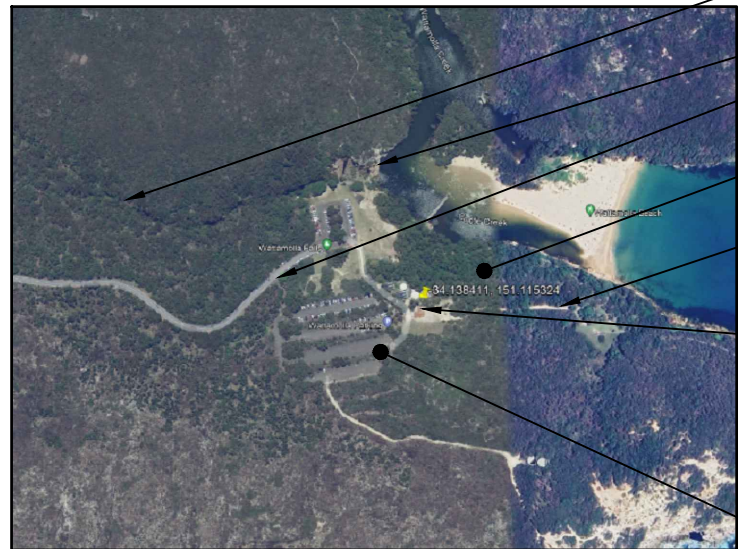


PHOTO 1 (AERIAL)



PHOTO 2 (DESCRIPTION)

EXISTING EMU POINT SITE ACCESS ROAD  
 COAST TRACK  
 SITE ACCESS TO ROYAL NATIONAL PARK (WATTAMOLLA)  
 SURROUNDING TREES (TYP.) MAXIMUM HEIGHT 12.0m - 13.0m  
 PROVIDENTIAL LOOKOUT TRACK

PROPOSED TELSTRA GPS ANTENNA (1 OFF, A200)  
 PROPOSED SMALL CELL SITE # 327398 (-34.138411, 151.115324) RFNSA ID: 2332039. PROPOSED TELSTRA 12.0m x 10.0m LEASE AND COMPOUND AREA. PROPOSED 20.0m TELSTRA MONOPOLE, SATELLITE DISH \_ SOLAR PANEL GRID

ROYAL NATIONAL PARK (WATTAMOLLA) CAR PARKING AREA (TYP.)

PROPOSED U/G ELECTRICAL CABLE IN P50 uPVC CONDUIT

PROPOSED TELSTRA SCM3007 EQUIPMENT CABINET ON SCM0004 PLINTH TO BE INSTALLED ON PROPOSED PAD FOOTING. REFER TO SHEET E5 FOR EQUIPMENT RACK DETAIL

PROPOSED FIBRE CABLE FROM R6471 TO RP6339

PROPOSED INSTALL ERICSSON ENCLOSURE 6330 ON PROPOSED MOUNT POLE @1.2m AGL WITH PROPOSED SATELLITE MODEM CNX-T AND PROPOSED ROUTER 6471

PROPOSED EME SIGN TO BE SECURED 1.5m AGL TO MONOPOLE #6

SITE STARTS FROM THIS POLE

PROPOSED EME SIGN SECURED TO THE BASE OF OMNI ANTENNA #2

PROPOSED DIRECT POUR CONCRETE PAD FOOTING (3.2m x 3.2m x 0.4m). REFER TO SHEETS T2 AND T2-1 FOR FOOTING DETAIL

PROPOSED TELSTRA LTE700 OMNI ANTENNA (1 OFF, A1) ON PROPOSED TELSTRA 20m INGAL SEESAW MONOPOLE WITH MOUNTING ADAPTOR. REFER TO DRAWING GA12138 FOR POLE DETAIL, AND GA12500 FOR MOUNT ADAPTOR DETAIL

PROPOSED TELSTRA COMPOUND LEASE AREA (12.0m x 10.0m)  
 PRESENCE OF ROCK  
 PROPOSED TELSTRA COMPOUND SECURITY FENCE WITH 3.0m WIDE DOUBLE ACCESS GATE (1 OFF). REFER TO TELSTRA STD DRAWINGS 017866P18 AND 017866P18 FOR DETAILS  
 EXISTING FENCING TO BE MODIFIED TO ACCOMMODATE PROPOSED POLE TILT

**UNAPPROVED DRAWING**

PROPOSED INSTALL RG6 (2 OFF, 15m)  
 PROPOSED INSTALL ONEWEB ANTENNAS (2 OFF, A2 & A3) ON THE 2m PROPOSED MOUNTING POLE

**SERVICES LEGEND**

- FE — ABOVE GROUND FEEDER CABLES
- - - FE - - - BELOW GROUND FEEDER CABLES
- - - E - - - BELOW GROUND ELECTRICAL SUPPLY
- - - T - - - OPTICAL FIBRE BELOW GROUND
- - - SW - - - STORM WATER
- (X) Ax PROPOSED TELSTRA ANTENNA SECTOR

- NOTES:
- FOR SITE PHOTOS REFER TO SHEETS 1 & 3.
  - ALL EXTERNAL FEEDERS AND TAILS MUST BE BIRD PROOFED AS PER EXTERNAL PLANT POLICY 003615.
  - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SPECIFIED OTHERWISE AND MUST BE CHECKED ON SITE.
  - FOR DESIGN, CONSTRUCTION AND STANDARD DRAWINGS REFER FIDO DOCUMENTATION.
  - FOR EME SIGNS NOTED AS #X REFER TO 005486 DOCUMENTS FOR DETAILS.
  - #2 EME SIGN TO BE SECURED TO THE BASE OF OMNI ANTENNA.
  - #6 EME SIGN TO BE SECURED 1.5m AGL TO MONOPOLE.
  - #11 EME SIGN SECURED ON PROPOSED MOUNT WITH 'DO NOT CLIMB' SIGNAGE (2 OFF)
  - #13 EME SIGN STAMPED WITH RFNSA ID TO BE INSTALLED ON TELSTRA SECURITY COMPOUND SITE ACCESS GATE (RFNSA ID: 2232039).
  - CLEAR ALL TALL GRASS/WEEDS WITHIN THE COMPOUND TO MINIMIZE SNAKE ACTIVITY.

**COMPLIANCE BOX**  
 COMPLETED AS PER DESIGN   
 ALTERATIONS IN RED   
 NAME (PRINT) \_\_\_\_\_  
 SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**SITE SETOUT**

SCALE 1:100  
 1m 0 1m 2m 3m 4m 5m SCALE 1:100

SHEET MUST BE PLOTTED IN COLOUR.  
 TO BE READ IN CONJUNCTION WITH SHEETS 1, 1-1, 2-1, 3 & 4.

ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA26829.01	JM	JH	FOR CONSTRUCTION - SP30102570WO004DOWN - L700	JMB	PG	08.11.23	1

**FOR CONSTRUCTION**

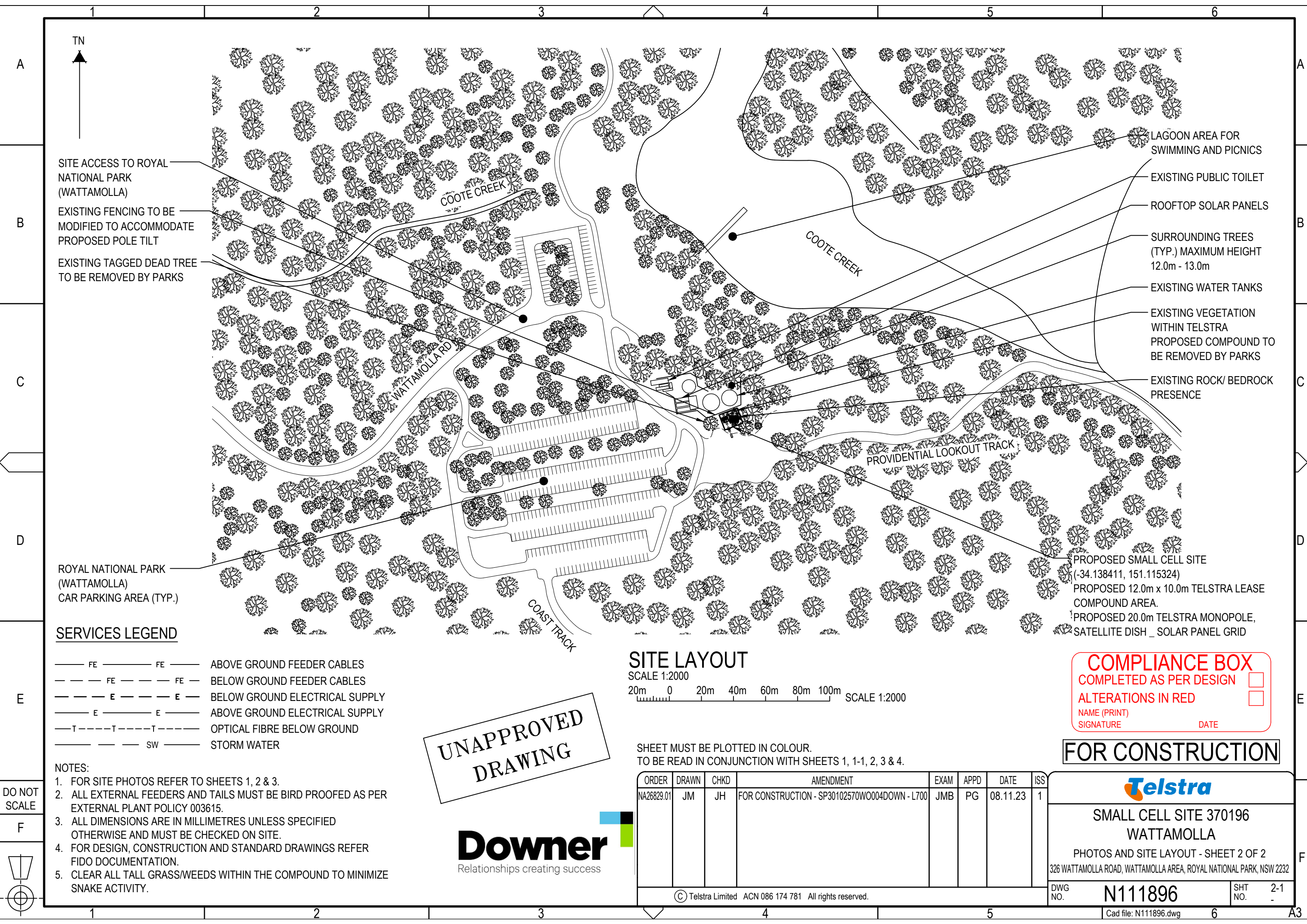
**Telstra**

**SMALL CELL SITE 370196**  
**WATTAMOLLA**

PHOTOS AND SITE LAYOUT - SHEET 1 OF 2  
 326 WATTAMOLLA ROAD, WATTAMOLLA AREA, ROYAL NATIONAL PARK, NSW 2232

DWG NO. **N111896** SHT NO. **2**





SITE ACCESS TO ROYAL NATIONAL PARK (WATTAMOLLA)  
 EXISTING FENCING TO BE MODIFIED TO ACCOMMODATE PROPOSED POLE TILT  
 EXISTING TAGGED DEAD TREE TO BE REMOVED BY PARKS

LAGOON AREA FOR SWIMMING AND PICNICS  
 EXISTING PUBLIC TOILET  
 ROOFTOP SOLAR PANELS  
 SURROUNDING TREES (TYP.) MAXIMUM HEIGHT 12.0m - 13.0m  
 EXISTING WATER TANKS  
 EXISTING VEGETATION WITHIN TELSTRA PROPOSED COMPOUND TO BE REMOVED BY PARKS  
 EXISTING ROCK/ BEDROCK PRESENCE

ROYAL NATIONAL PARK (WATTAMOLLA)  
 CAR PARKING AREA (TYP.)

PROPOSED SMALL CELL SITE (-34.138411, 151.115324)  
 PROPOSED 12.0m x 10.0m TELSTRA LEASE COMPOUND AREA.  
 PROPOSED 20.0m TELSTRA MONOPOLE, SATELLITE DISH \_ SOLAR PANEL GRID

**SERVICES LEGEND**

- FE ——— FE ——— ABOVE GROUND FEEDER CABLES
- - - FE - - - FE - - - BELOW GROUND FEEDER CABLES
- E ——— E ——— BELOW GROUND ELECTRICAL SUPPLY
- E ——— E ——— ABOVE GROUND ELECTRICAL SUPPLY
- - - T - - - T - - - OPTICAL FIBRE BELOW GROUND
- SW ——— SW ——— STORM WATER

- NOTES:
- FOR SITE PHOTOS REFER TO SHEETS 1, 2 & 3.
  - ALL EXTERNAL FEEDERS AND TAILS MUST BE BIRD PROOFED AS PER EXTERNAL PLANT POLICY 003615.
  - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SPECIFIED OTHERWISE AND MUST BE CHECKED ON SITE.
  - FOR DESIGN, CONSTRUCTION AND STANDARD DRAWINGS REFER FIDO DOCUMENTATION.
  - CLEAR ALL TALL GRASS/WEEDS WITHIN THE COMPOUND TO MINIMIZE SNAKE ACTIVITY.

**SITE LAYOUT**

SCALE 1:2000  
 20m 0 20m 40m 60m 80m 100m SCALE 1:2000

UNAPPROVED DRAWING

SHEET MUST BE PLOTTED IN COLOUR.  
 TO BE READ IN CONJUNCTION WITH SHEETS 1, 1-1, 2, 3 & 4.

COMPLIANCE BOX

COMPLETED AS PER DESIGN

ALTERATIONS IN RED

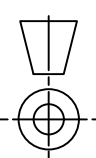
NAME (PRINT) \_\_\_\_\_ DATE \_\_\_\_\_

SIGNATURE \_\_\_\_\_

FOR CONSTRUCTION

DO NOT SCALE

F



ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA26829.01	JM	JH	FOR CONSTRUCTION - SP30102570W0004DOWN - L700	JMB	PG	08.11.23	1



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SMALL CELL SITE 370196  
WATTAMOLLA

PHOTOS AND SITE LAYOUT - SHEET 2 OF 2  
326 WATTAMOLLA ROAD, WATTAMOLLA AREA, ROYAL NATIONAL PARK, NSW 2232

N111896

DWG NO. N111896 SHT NO. 2-1

# TELSTRA ANTENNA CONFIGURATION TABLE

ANTENNA No	ANTENNA TYPE & SIZE H x W x D	ANTENNA ACTION REQUIRED	ANTENNA HEIGHT C/L A.G.L.	PHYSICAL ANTENNA BEARING (x°T)	SECTOR NO. & TECHNOLOGY
A1	COMMSCOPE UNX001U-2P OMNI Ø82 x 978mm	INSTALL	20.8m (BASE OF OMNI)	0°	S0: LTE 700 S0: LTE 700
A2	INTELLIAN OW70L DAC SOLID PARABOLIC	INSTALL	2.3m (BASE)	NA	SATELLITE LINK
A3	INTELLIAN OW70L DAC SOLID PARABOLIC	INSTALL	2.3m (BASE)	NA	SATELLITE LINK
A200	ERICSSON KRE 101 2082/1 Ø68 x 96	INSTALL	2.2m (BASE OF GPS)	0° TN	-

- NOTES:
- FOR SITE PHOTOS REFER TO SHEETS 1 & 2.
  - ALL EXTERNAL FEEDERS AND TAILS MUST BE BIRD PROOFED AS PER EXTERNAL PLANT POLICY 003615.
  - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SPECIFIED OTHERWISE AND MUST BE CHECKED ON SITE.
  - FOR DESIGN, CONSTRUCTION AND STANDARD DRAWINGS REFER FIDO DOCUMENTATION.
  - FOR EME SIGNS NOTED AS #X REFER TO 005486 DOCUMENTS FOR DETAILS.
  - #2 EME SIGN TO BE SECURED TO THE BASE OF OMNI ANTENNA.
  - #6 EME SIGN TO BE SECURED 1.5m AGL TO MONOPOLE.
  - #11 EME SIGN SECURED ON PROPOSED MOUNT WITH 'DO NOT CLIMB' SIGNAGE (2 OFF).
  - #13 EME SIGN STAMPED WITH RFNSA ID TO BE INSTALLED ON TELSTRA SECURITY COMPOUND SITE ACCESS GATE (RFNSA ID: 2332039).
  - CLEAR ALL TALL GRASS/WEEDS WITHIN THE COMPOUND TO MINIMIZE SNAKE ACTIVITY.

UNAPPROVED DRAWING

COMPLIANCE BOX

COMPLETED AS PER DESIGN

ALTERATIONS IN RED

NAME (PRINT) \_\_\_\_\_

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

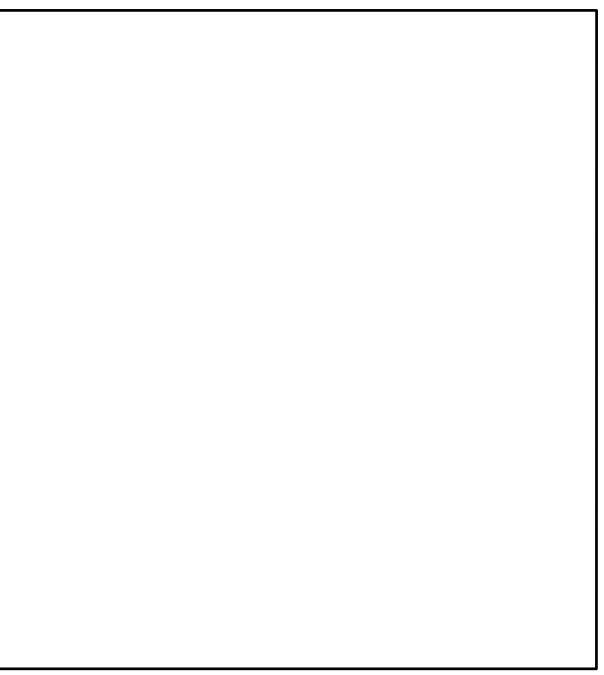
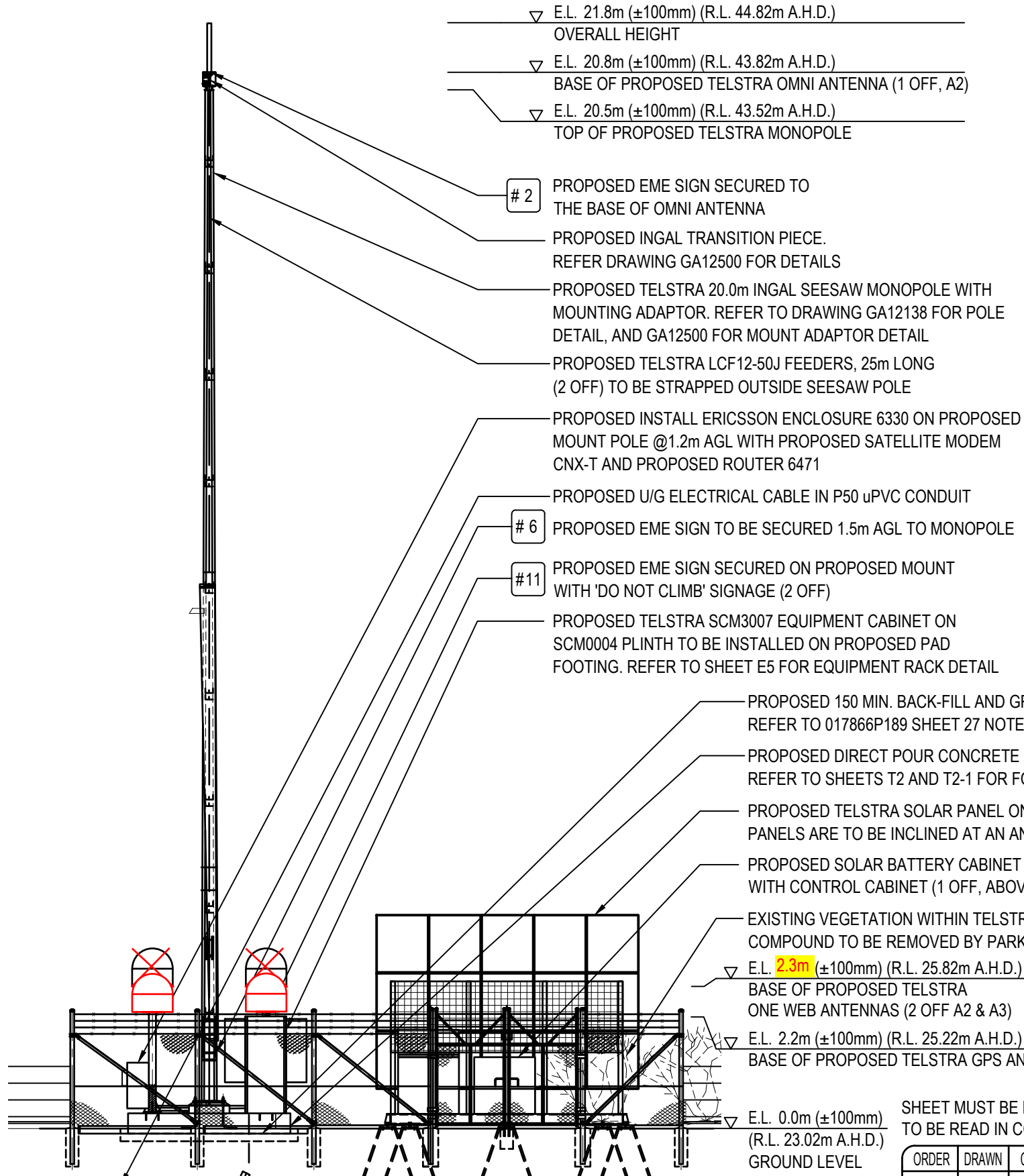


PHOTO 3 (DESCRIPTION)

FOR CONSTRUCTION



SOUTH ELEVATION

SCALE 1:100

SCALE 1:100



SHEET MUST BE PLOTTED IN COLOUR.  
TO BE READ IN CONJUNCTION WITH SHEETS 1, 1-1, 2, 2-1 & 4.

ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA26829.01	JM	JH	FOR CONSTRUCTION - SP30102570W0004DOWN - L700	JMB	PG	08.11.23	1

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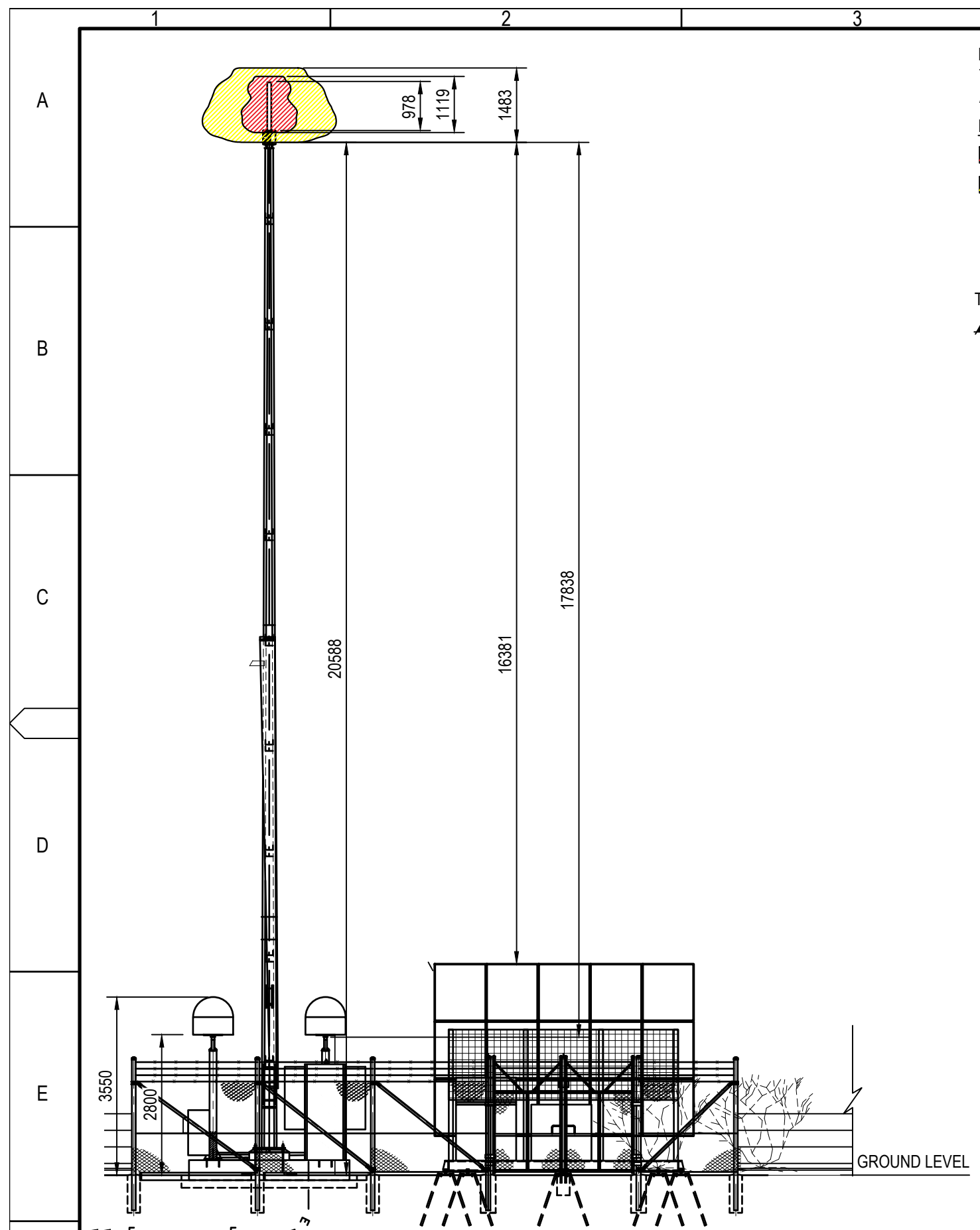
SMALL CELL SITE 370196  
WATTAMOLLA

ELEVATION AND PHOTOS

326 WATTAMOLLA ROAD, WATTAMOLLA AREA, ROYAL NATIONAL PARK, NSW 2232

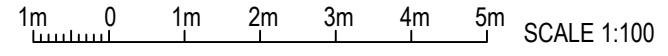
N111896

DWG NO. SHT NO. 3



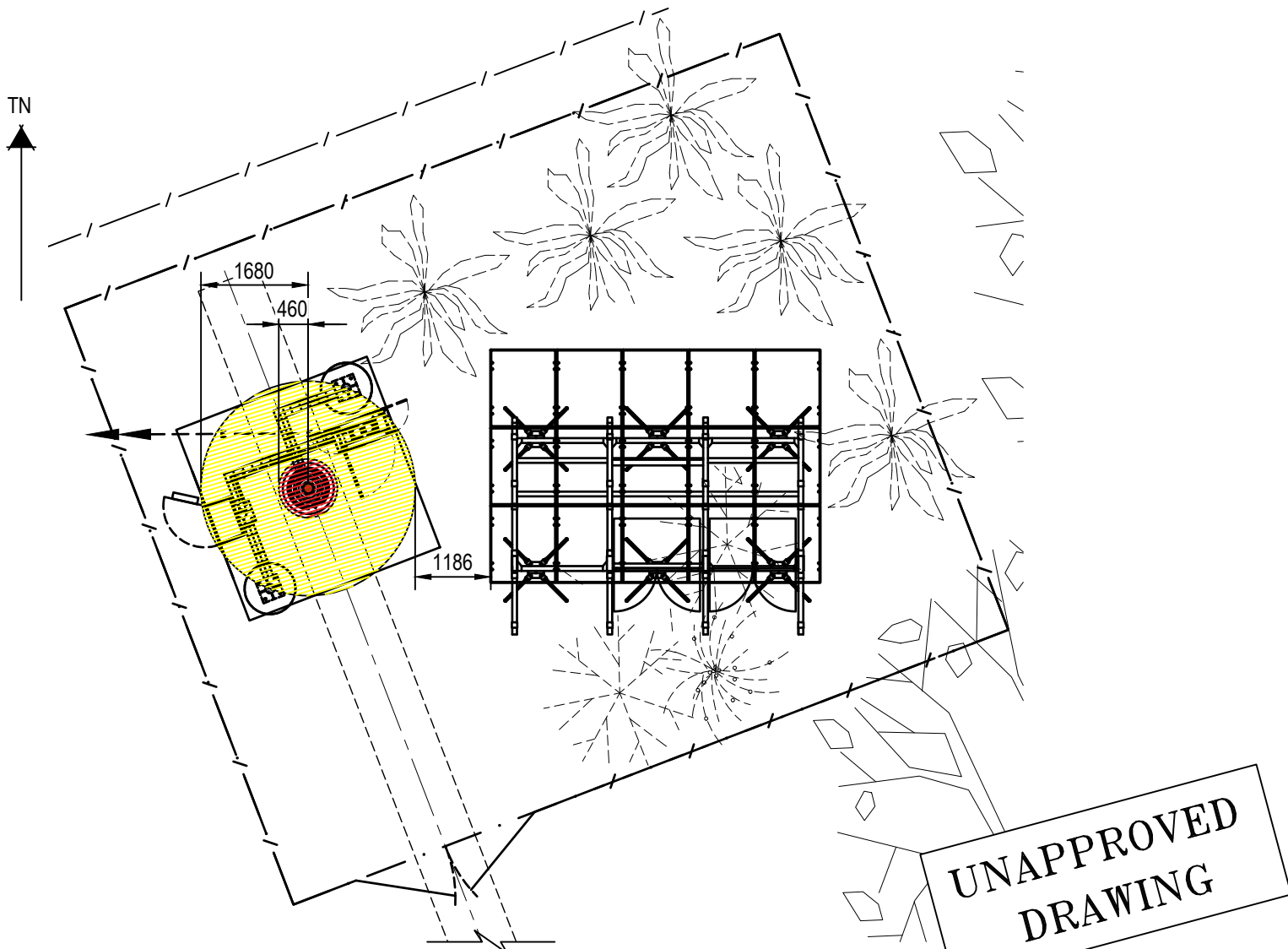
**EME EXCLUSION ZONES - ELEVATION VIEW**

ANTENNA TYPE - UNX001U-2P OMNI ANTENNA  
2 x 20W LTE700 &  
SCALE 1:100



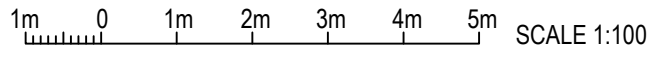
NOTE:  
THE EME EXCLUSION ZONES SHOWN ON THIS DRAWING ARE BASED ON UNX001U-2P OMNI ANTENNA,  
**EXCLUSION ZONE LEGEND**  
 AREAS ABOVE RPS3 OCCUPATIONAL LIMITS  
 AREAS ABOVE RPS3 PUBLIC LIMITS

NOTES:  
1. FOR SITE PHOTOS REFER TO SHEETS 1, 2 & 3.  
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SPECIFIED OTHERWISE, AND MUST BE CHECKED ONSITE.  
3. FOR DESIGN, CONSTRUCTION AND STANDARD DRAWINGS REFER TO 017866a21 DOCUMENTATION.



**EME EXCLUSION ZONES - PLAN VIEW**

ANTENNA TYPE - UNX001U-2P OMNI ANTENNA  
2 x 20W LTE700  
SCALE 1:100



**UNAPPROVED DRAWING**

**COMPLIANCE BOX**  
 COMPLETED AS PER DESIGN   
 ALTERATIONS IN RED   
 NAME (PRINT) \_\_\_\_\_  
 SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**FOR CONSTRUCTION**

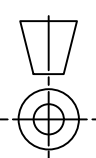
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TO BE READ IN CONJUNCTION WITH SHEETS 1, 1-1, 2, 2-1

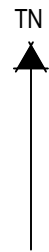
ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA26829.01	JM	JH	FOR CONSTRUCTION - SP30102570W0004DOWN - L700	JMB	PG	08.11.23	1

**Telstra**  
 SMALL CELL SITE 370196  
 WATTAMOLLA  
 EME EXCLUSION ZONES  
 326 WATTAMOLLA ROAD, WATTAMOLLA AREA, ROYAL NATIONAL PARK, NSW 2232

DO NOT SCALE

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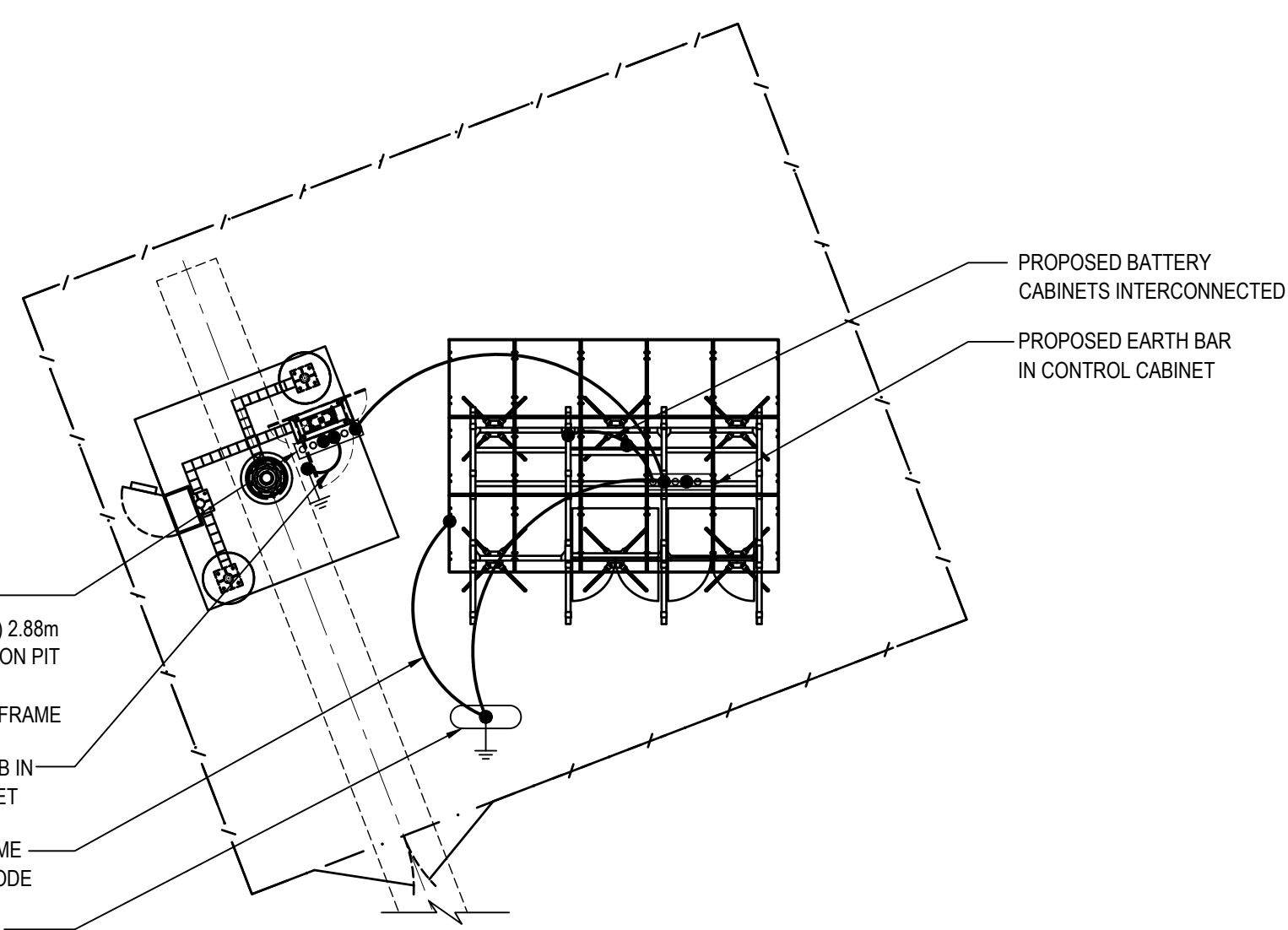




NOTES:

- REFER DRAWING 017866P203 SHEET 12.
- ALL EARTH STRAP TO BE 50 x 3mm HOT DIPPED GALVANISED MS FLAT AND LAID TO MINIMUM DEPTH OF 500mm.
- STANDARD ELECTRODES TO BE STAINLESS STEEL CLAD RODS, (S/I 446/16) 1440mm LONG AT 3m SPACING BY A MINIMUM OF 2 ELECTRODES DEEP.
- 19/1.53mm GREEN & YELLOW COPPER CABLE SHALL RUN FROM THE BATTERY CABINET EARTH BAR TO EARTH ELECTRODE.
- 19/1.53mm GREEN & YELLOW COPPER CABLE SHALL RUN FROM BATTERY CABINET EARTH BAR TO SPC OF EQUIPMENT CABINET.
- ALL CONNECTIONS TO EARTH ELECTRODES AND JOINTS ARE TO BE TREATED WITH DENSO PASTE AND TAPE.
- WHERE ELECTRODES CAN NOT BE DRIVEN, OR EARTH RESISTIVITY IS HIGH, DEEP DRILLED ELECTRODES MAY NEED TO BE INSTALLED. BACKFILL WITH EARTH ENHANCING MATERIAL (E.G. CALCIUM BENTONITE AND GYPSUM SLURRY).
- FOR FENCING, INTERCONNECT THE FENCE POSTS AT GATE. REFER TO DRAWING 017866P201 SHEET 1.

EARTH ELECTRODE SCHEDULE			
TYPE	DIAMETER	QUANTITY	DEPTH
STAINLESS STEEL CLAD ROD	14mm	2	2.88m



PROPOSED BATTERY CABINETS INTERCONNECTED

PROPOSED EARTH BAR IN CONTROL CABINET

PROPOSED EARTH ELECTRODE (1 OFF) 2.88m DEEP. NO INSPECTION PIT REQUIRED WHEN INSTALLED IN SKID FRAME

PROPOSED SPC/SEB IN SMALL CELL CABINET

SOLAR ARRAY FRAME TO EARTH ELECTRODE

PROPOSED EARTH ELECTRODE (1 OFF) 2.88m DEEP IN INSPECTION PIT

**SITE EARTHING - PLAN**  
SCALE 1:100

**UNAPPROVED DRAWING**

**COMPLIANCE BOX**  
COMPLETED AS PER DESIGN   
ALTERATIONS IN RED   
NAME (PRINT) \_\_\_\_\_  
SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**FOR CONSTRUCTION**

**LEGEND:**

---	EA	EARTH STRAP
—		35mm <sup>2</sup> G/Y INSULATED CABLE (19/1.53)
●		CONNECTION (LINE TAP) S/I 151/550
●—		EARTH ELECTRODE
○		EARTH INSPECTION PIT
□		SEB
□		SERVICE EARTH BAR



ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA26829.01	JM	JH	FOR CONSTRUCTION - SP30102570W0004DOWN - L700	JMB	PG	08.11.23	1

**Telstra**

SMALL CELL SITE 370196  
WATTAMOLLA  
SITE EARTHING

326 WATTAMOLLA ROAD, WATTAMOLLA AREA, ROYAL NATIONAL PARK, NSW 2232

DWG NO. **N111896** SHT NO. G4

# ELECTRICAL SPECIFICATION

## 1. GENERAL

ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THIS SPECIFICATION, AS/NZS 3000, AS 3008, AS3017, ALL OTHER RELEVANT AUSTRALIAN STANDARDS, WA DISTRIBUTION CONNECTIONS MANUAL AND WA ELECTRICAL REQUIREMENTS.

UNDERGROUND CABLING IS TO BE INSTALLED IN uPVC HEAVY DUTY RIGID CONDUIT. THE CABLE ROUTE SHALL GENERALLY BE AS SHOWN ON SHEETS 2 AND 3.

WHERE CABLE TURNS ARE REQUIRED, THE RADIUS OF ANY BENDS SHALL NOT BE LESS THAN THE MINIMUM BENDING RADIUS OF THE CABLE.

CONTRACTOR SHALL MAKE THEMSELVES AWARE OF ALL SERVICES PRESENT ON SITE.

CONTRACTOR SHALL MAKE THEMSELVES AWARE OF ALL SITE CONDITIONS AND SAFETY REQUIREMENTS PRIOR TO COMMENCING WORK ON SITE.

## 2. AC SUPPLY

16A/1P SUPPLY SHALL BE PROVIDED BY SITE PROVIDER. CABLE SHALL BE LEFT COILED AT PROPOSED LOCATION FOR TELSTRA TO CONNECT WITHIN THEIR PROPOSED SMALL CELL CABINET.

CABLE SHALL BE INSTALLED IN UV PROTECTED CONDUIT FIXED TO SLAB AND VIA PENETRATION IN PLINTH TO TERMINATE WITHIN SMALL CELL CABINET. ALL PENETRATIONS IN PLINTH SHALL BE SEALED AND WATERPROOFED FOR OUTDOOR OPERATIONS.

NO METERING IS REQUIRED ON SITE FOR TELSTRA.

## 3. APPLICATION FOR SUPPLY OF ELECTRICITY

NOT APPLICABLE, AC POWER SHALL BE PROVIDED BY SITE PROVIDER.

## 4. DC POWER SYSTEM

PROPOSED DC LOAD OF THE SITE IS 305 W.

BATTERIES SHALL BE INSTALLED TO PROVIDE 3 HRS OF BATTERY RESERVE FOR SMALL CELL FACILITY AS PER BLACKSPOT REQUIREMENTS FOR SMALL CELLS

## 5. RBS

PROPOSED INSTALL 1 x BB6303 & 1 x RADIO2217 IN PROPOSED SMALL CELL CABINET.

PROPOSED BB6303 AND RADIO2217 BOTH SHALL BE SUPPLIED VIA A 10A MCB IN DC DISTRIBUTION BOARD WITHIN SMALL CELL CABINET.

ALL INSTALLATION SHALL BE IN ACCORDANCE WITH TELSTRA DEPLOYMENT MANUALS FOR SMALL CELL ON SKID FRAME.

## 6. LTE700 GPS SYSTEM

PROVIDE AND INSTALL GPS ANTENNA FOR LTE 700 AS PER TELSTRA SPECIFICATIONS FOR SMALL CELLS.

## 7. LABELLING

ALL LABELLING SHALL BE DONE AS PER TELSTRA REQUIREMENTS FOR SMALL CELLS.

## 9. EARTHING

ALL EARTHING AND BONDING IS TO BE IN ACCORDANCE WITH THE TELSTRA EARTHING MANUAL 017866A07.

ALL CABINETS SHALL BE CONNECTED TO EARTHING SYSTEM AS PER TELSTRA REQUIREMENTS.

ALL EQUIPMENT INSTALLED IN THE PROPOSED SMALL CELL CABINETS ARE TO BE BONDED TO THE CABINET EARTH BAR. FOR FEEDER EARTHING REFER TO DRAWING 017866P201 SHT 11.

ALL BONDING CONDUCTORS ARE TO BE LABELLED AT BOTH ENDS IN ACCORDANCE WITH THE TELSTRA EARTHING MANUAL SECTION 3.5.

TELSTRA EQUIPMENT AND STRUCTURE EARTHING IS TO BE INSTALLED IN ACCORDANCE WITH AS/NZS1768, 017866P205 SHEET 1, 017866P201 SHEET 2 AND ALL REFERENCED TELSTRA STANDARD DOCUMENTATION.

- PROPOSED EARTH GRID ELECTRODES: 2 OFF
  - PROPOSED EARTH GRID ELECTRODE LENGTH: 2.88m
  - INSTALLATION METHOD: DRIVEN.  
CORE DRILLED (HARD GROUND)
- REFER TO SHEET G4 FOR SITE SPECIFIC EARTHING DETAILS.

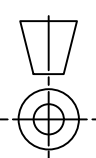
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**COMPLIANCE BOX**  
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**FOR CONSTRUCTION**

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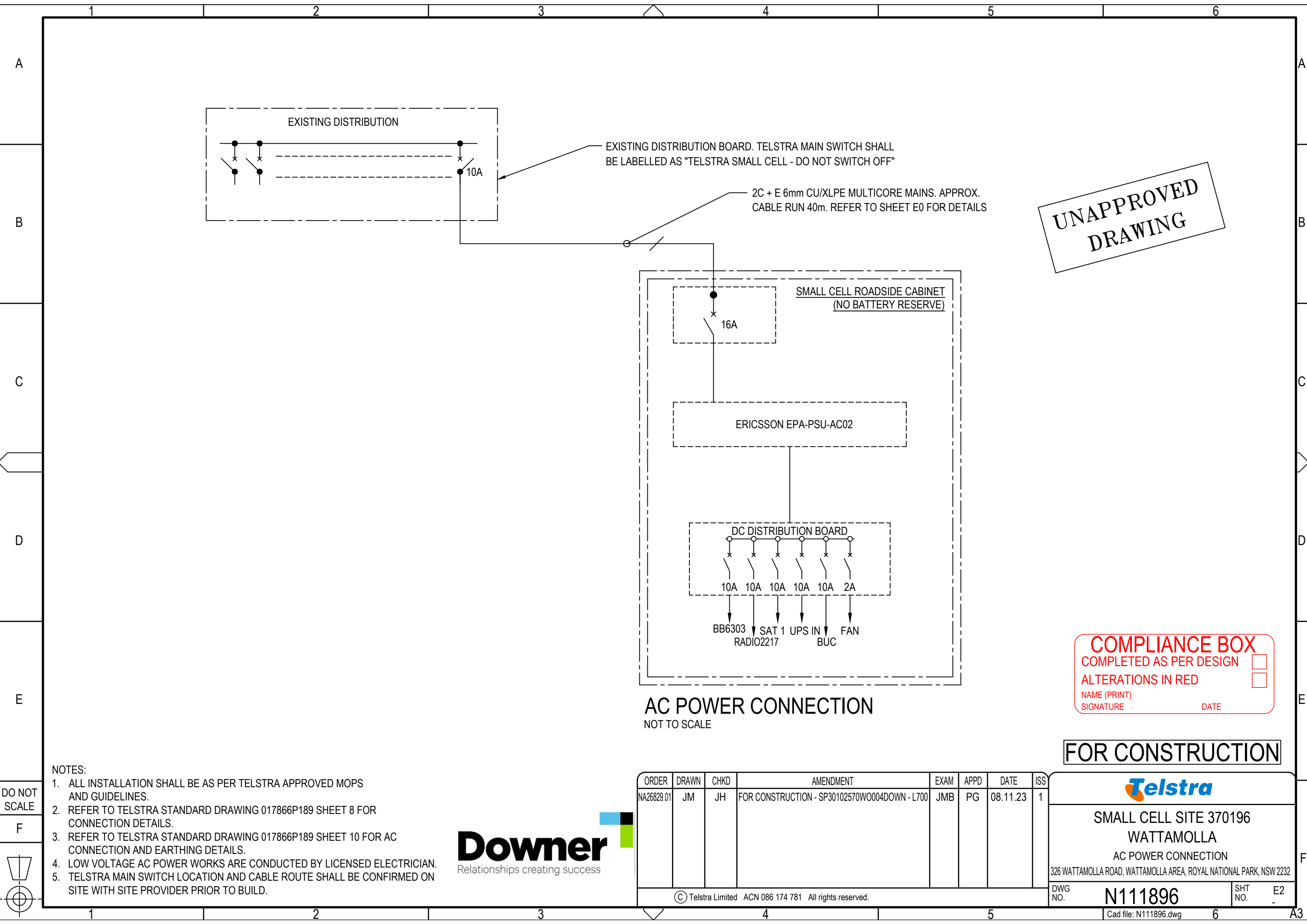
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**Telstra**

SMALL CELL SITE 370196  
WATTAMOLLA  
ELECTRICAL SPECIFICATION  
326 WATTAMOLLA ROAD, WATTAMOLLA AREA, ROYAL NATIONAL PARK, NSW 2232

DWG NO. **N111896** SHT NO. **E0**





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**FOR CONSTRUCTION**

- NOTES:
1. ALL INSTALLATION SHALL BE AS PER TELSTRA APPROVED MOPS AND GUIDELINES.
  2. REFER TO TELSTRA STANDARD DRAWING 017866P189 SHEET 8 FOR CONNECTION DETAILS.
  3. REFER TO TELSTRA STANDARD DRAWING 017866P189 SHEET 10 FOR AC CONNECTION AND EARTHING DETAILS.
  4. LOW VOLTAGE AC POWER WORKS ARE CONDUCTED BY LICENSED ELECTRICIAN.
  5. TELSTRA MAIN SWITCH LOCATION AND CABLE ROUTE SHALL BE CONFIRMED ON SITE WITH SITE PROVIDER PRIOR TO BUILD.



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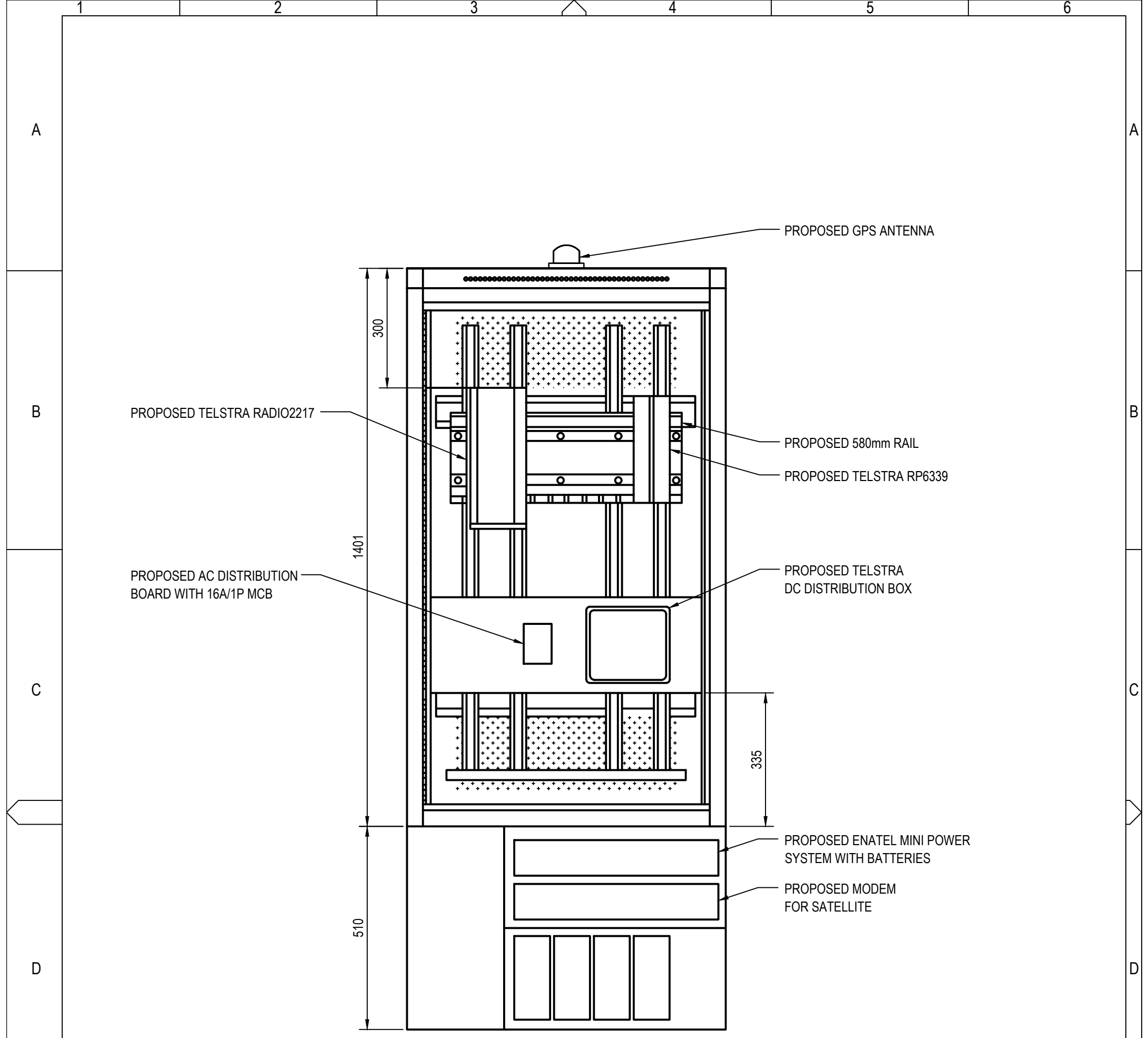
**SMALL CELL SITE 370196  
WATTAMOLLA**

AC POWER CONNECTION

326 WATTAMOLLA ROAD, WATTAMOLLA AREA, ROYAL NATIONAL PARK, NSW 2232

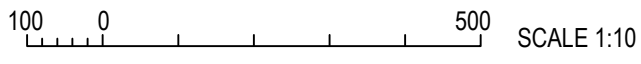
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DWG NO. **N111896** SHT NO. E2



**ELEVATION**

SCALE 1:10



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**NOTES:**  
 1. ALL DIMENSIONS ARE IN MILLIMETRES.



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**SMALL CELL SITE 370196  
 WATTAMOLLA  
 RACK LAYOUT**

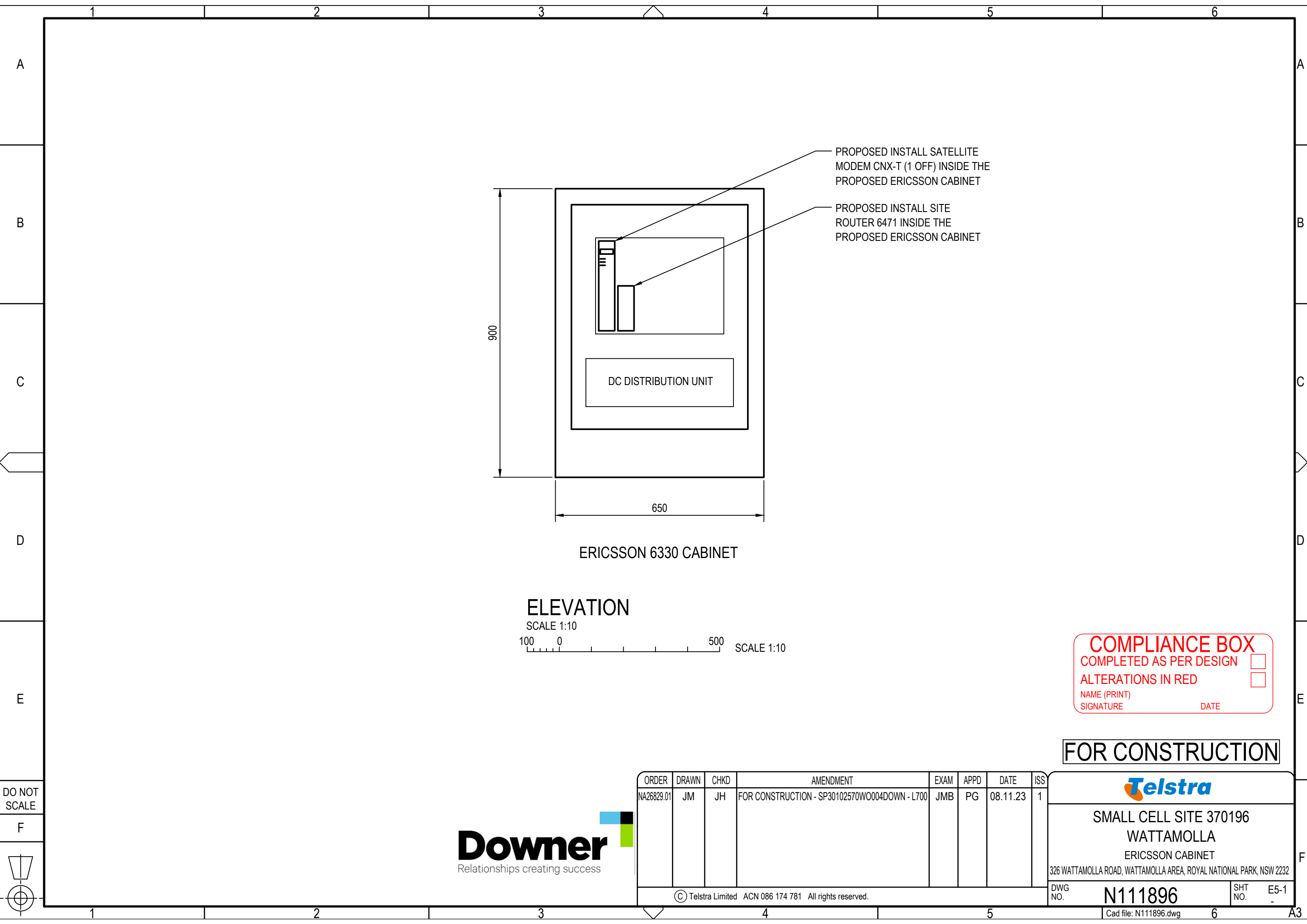
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DWG NO. **N111896** SHT NO. **E5**

Cad file: N111896.dwg

A3V



PROPOSED INSTALL SATELLITE MODEM CNX-T (1 OFF) INSIDE THE PROPOSED ERICSSON CABINET

PROPOSED INSTALL SITE ROUTER 6471 INSIDE THE PROPOSED ERICSSON CABINET

DC DISTRIBUTION UNIT

ERICSSON 6330 CABINET

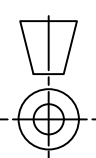
ELEVATION  
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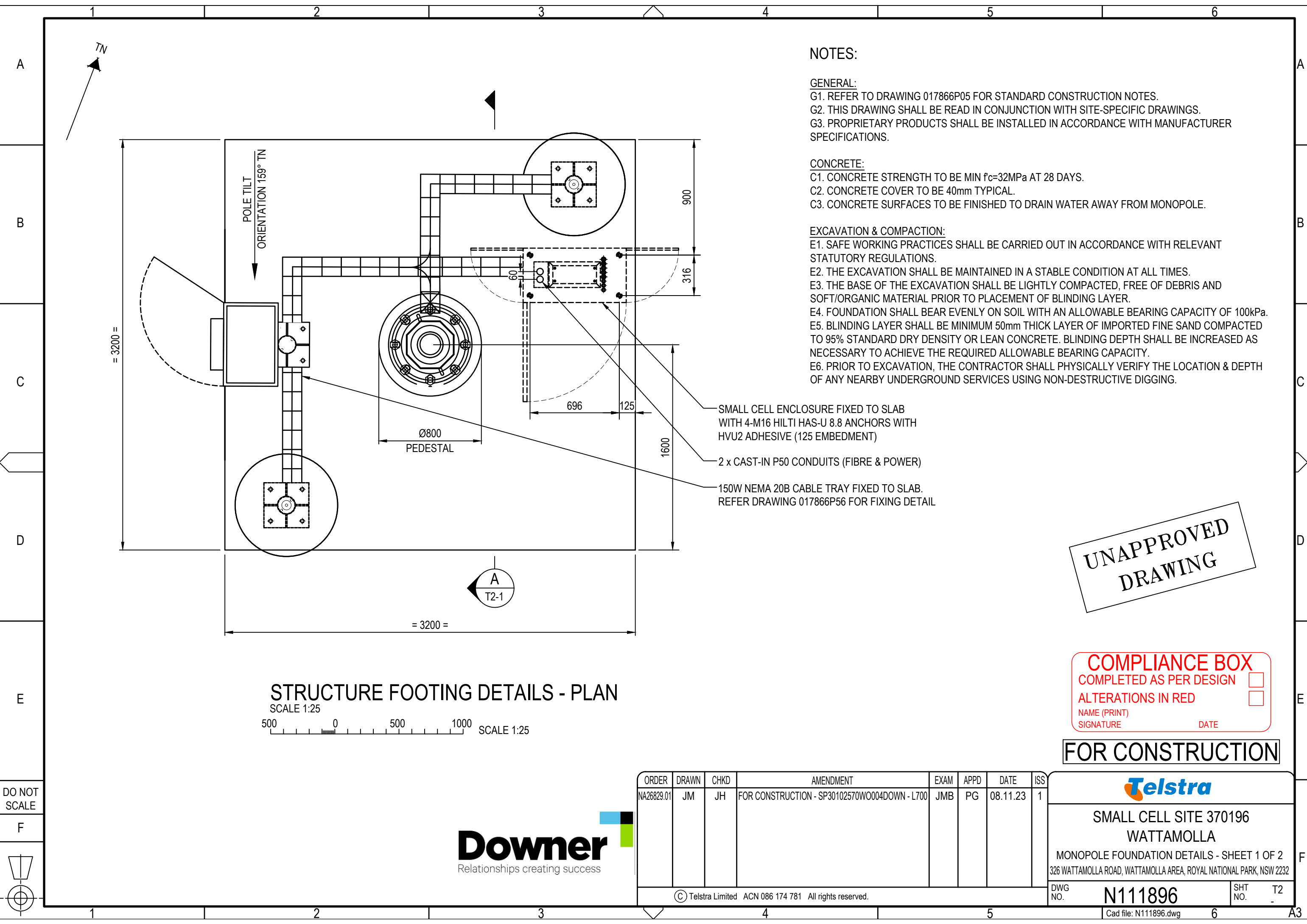


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**Telstra**  
 SMALL CELL SITE 370196  
 WATTAMOLLA  
 ERICSSON CABINET  
 326 WATTAMOLLA ROAD, WATTAMOLLA AREA, ROYAL NATIONAL PARK, NSW 2232

DWG NO. **N111896** SHT NO. E5-1



**NOTES:**

**GENERAL:**

- G1. REFER TO DRAWING 017866P05 FOR STANDARD CONSTRUCTION NOTES.
- G2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH SITE-SPECIFIC DRAWINGS.
- G3. PROPRIETARY PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.

**CONCRETE:**

- C1. CONCRETE STRENGTH TO BE MIN  $f_c=32\text{MPa}$  AT 28 DAYS.
- C2. CONCRETE COVER TO BE 40mm TYPICAL.
- C3. CONCRETE SURFACES TO BE FINISHED TO DRAIN WATER AWAY FROM MONOPOLE.

**EXCAVATION & COMPACTION:**

- E1. SAFE WORKING PRACTICES SHALL BE CARRIED OUT IN ACCORDANCE WITH RELEVANT STATUTORY REGULATIONS.
- E2. THE EXCAVATION SHALL BE MAINTAINED IN A STABLE CONDITION AT ALL TIMES.
- E3. THE BASE OF THE EXCAVATION SHALL BE LIGHTLY COMPACTED, FREE OF DEBRIS AND SOFT/ORGANIC MATERIAL PRIOR TO PLACEMENT OF BLINDING LAYER.
- E4. FOUNDATION SHALL BEAR EVENLY ON SOIL WITH AN ALLOWABLE BEARING CAPACITY OF 100kPa.
- E5. BLINDING LAYER SHALL BE MINIMUM 50mm THICK LAYER OF IMPORTED FINE SAND COMPACTED TO 95% STANDARD DRY DENSITY OR LEAN CONCRETE. BLINDING DEPTH SHALL BE INCREASED AS NECESSARY TO ACHIEVE THE REQUIRED ALLOWABLE BEARING CAPACITY.
- E6. PRIOR TO EXCAVATION, THE CONTRACTOR SHALL PHYSICALLY VERIFY THE LOCATION & DEPTH OF ANY NEARBY UNDERGROUND SERVICES USING NON-DESTRUCTIVE DIGGING.

- SMALL CELL ENCLOSURE FIXED TO SLAB WITH 4-M16 HILTI HAS-U 8.8 ANCHORS WITH HVU2 ADHESIVE (125 EMBEDMENT)
- 2 x CAST-IN P50 CONDUITS (FIBRE & POWER)
- 150W NEMA 20B CABLE TRAY FIXED TO SLAB. REFER DRAWING 017866P56 FOR FIXING DETAIL

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**STRUCTURE FOOTING DETAILS - PLAN**

SCALE 1:25  
  
 SCALE 1:25

COMPLIANCE BOX

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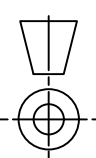
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SMALL CELL SITE 370196  
WATTAMOLLA

MONOPOLE FOUNDATION DETAILS - SHEET 1 OF 2  
326 WATTAMOLLA ROAD, WATTAMOLLA AREA, ROYAL NATIONAL PARK, NSW 2232

DWG NO. **N111896** SHT NO. T2

A

(A)

B

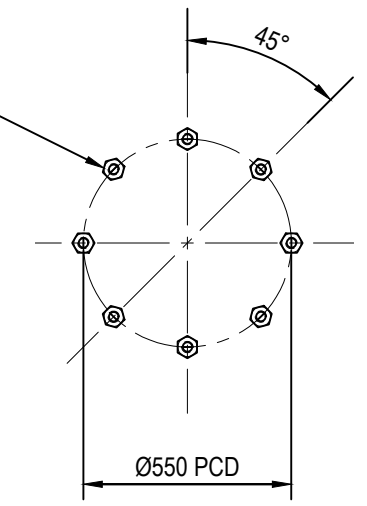
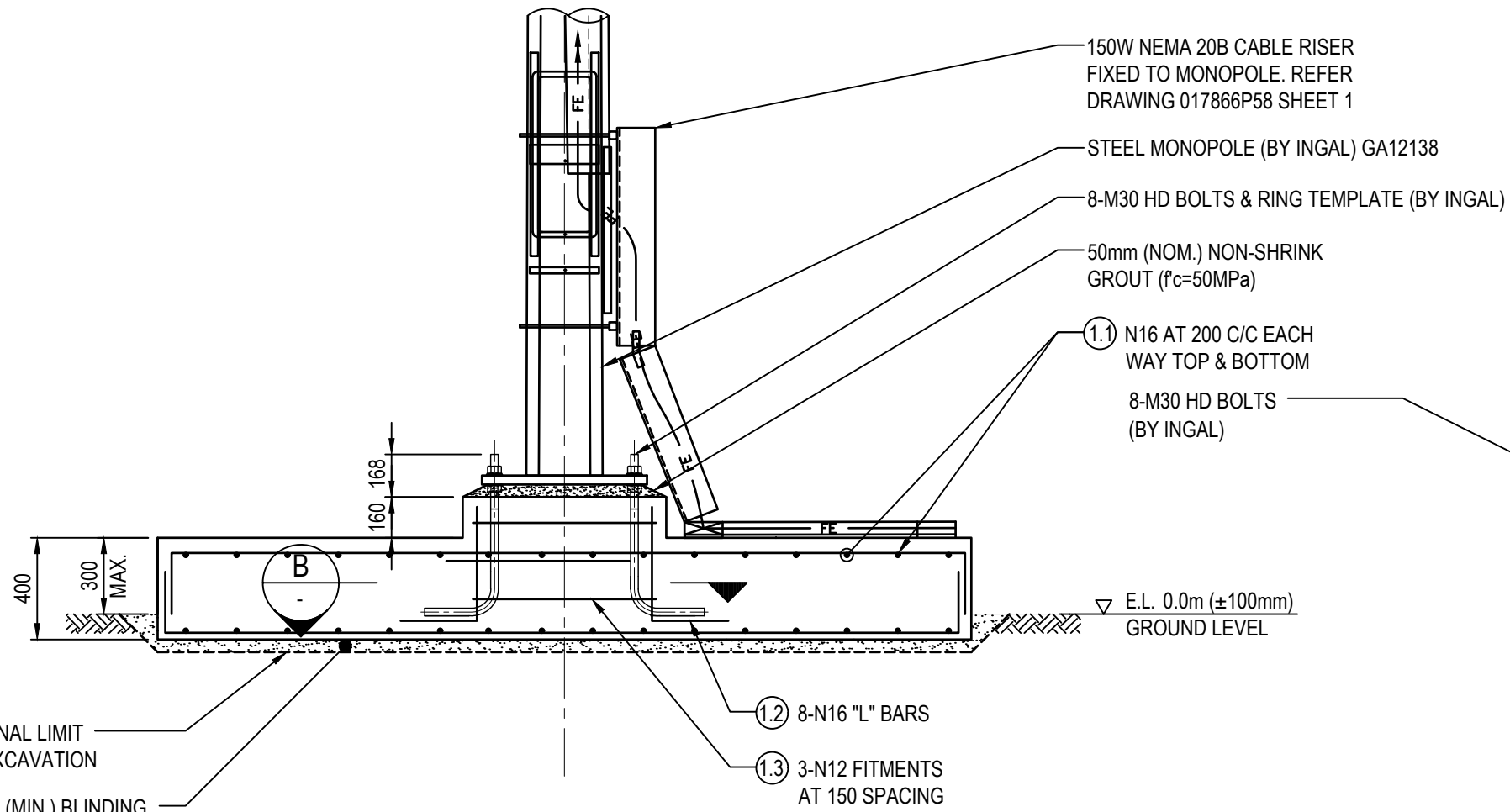
C

D

E

F

REINFORCEMENT SCHEDULE								
SHAPE	PART	DIM 'A' (mm)	DIM 'B' (mm)	DIM 'C' (mm)	MATERIAL	CUT LENGTH (mm)	No. OFF	TOTAL MASS (Kg.)
	1.1	3120	240	-	N16	3600	64	387.5
	1.2	448	300	-	N16	748	8	10.1
	1.3	720	100	100	N12	2462	3	7.0
APPROX. VOLUME CONCRETE			4.2m <sup>3</sup>		APPROX. WEIGHT STEEL		404.6kg	



**SECTION A**  
SCALE 1:25

500 0 500 1000 SCALE 1:25

**SECTION B**  
SCALE 1:20

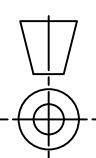
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SMALL CELL SITE 370196  
WATTAMOLLA

MONOPOLE FOUNDATION DETAILS - SHEET 2 OF 2  
326 WATTAMOLLA ROAD, WATTAMOLLA AREA, ROYAL NATIONAL PARK, NSW 2232

DWG NO. **N111896** SHT NO. T2-1