

DATE OF ISSUE		DRAWING PACKAGE VERSION		
10.06.24		1	2	3
22.10.24				
03.12.24				

REFERENCE DOCUMENTS

OSD-100	STANDARD CONSTRUCTION NOTES		C	C	C
OSD-171-2	SITE SIGNAGE TYPICAL ROOFTOP SITE - PLAN	B	B	B	B
OSD-171-3	SIGNAGE LEGEND AND NOTES	B	B	B	B
OSD-540	CABLE LADDER FIXING DETAILS TO BUILDINGS & STRUCTURES	F	F	F	F
OSD-620	MAINS POWER MANUAL CHANGEOVER SWITCH DETAILS	A	A	A	A
OSD-713	OUTDOOR CABINET GENERAL EARTHING DETAILS	A	A	A	A
OSD-800	TYPICAL ROOFTOP EARTHING PLAN	B	B	B	B
OSD-810	TYPICAL ROOFTOP EARTHING DETAILS AT ANTENNAS	C	C	C	C
OSD-830	EARTH BAR DETAILS	B	B	B	B
OSD-831	SINGLE POINT EARTH BAR DETAILS	A	A	A	A
21080 21 CERT01	INDARA ROOFTOP STRUCTURAL CERTIFICATE	1	1	2	



OPTUS SITE - S4116

COLLAROY BEACH 2

1058 PITTWATER RD

COLLAROY

NSW 2097

OPTUS STAY ALIVE SITE REPLACEMENT 5G

OPTUS WORK AUTHORITY N° 482772



FOR CONSTRUCTION

Drawing No.

S4116 - 01

This is the plan/spec referred to the
Certificate No.
CDC103/2025
Accredited Certifier: D. Chacko
Accreditation Number: BDC2304

1058 PITTWATER RD
COLLAROY
NSW 2097



1. MANUAL HANDLING
2. WORKING AT HEIGHTS
3. SLIP, TRIP AND FALLS
4. ELECTRICAL HAZARDS
5. WEATHER / LIGHTNING
6. SUN EXPOSURE
7. WILDLIFE / INSECTS
8. FOOT AND VEHICULAR TRAFFIC CONTROL

1. EXISTING ACCESS TRACK IS VIA PITTWATER ROAD AND THROUGH REAR FIRE STAIRS ACCESS FROM NORTH CAR PARK AT REAR OF 1066 PITTWATER ROAD.
2. SITE CONTACT IS DARREN PYECROFT AND CONTACT DETAILS ARE:
PH: 02 9971 5355
EMAIL: darren.p@thebeachclub.com.au.
CONTACT CLUB GENERAL MANAGER AT LEAST 2 DAYS PRIOR TO VISIT AND ENSURE MINIMUM INTERRUPTION TO CLUB OPERATIONS.

1. SITE SIGNAGE SHALL BE IN ACCORDANCE WITH OSD-171-2 (ROOFTOP SITE) AND OSD-171-3 (EME SIGNAGE).
2. FOR SITES THAT DO NOT HAVE A FENCE, FIX SIGNS THAT ARE PRESCRIBED TO BE FIXED TO THE FENCE TO THE OUTDOOR CABINET MAIN DOOR.
3. REFER TO DRG. S4116-G2 FOR SITE SPECIFIC SIGNAGE REQUIREMENT.

REFER TO RADIO COMMUNICATIONS SITE MANAGEMENT BOOK (EMEG) FOR LATEST EME EXCLUSION ZONES FOR NEW ANTENNAS AT THIS SITE.

REFER TO SITE POWER DETAILS DRAWINGS S4116-E1 & E2.

REFER TO EARTHING DRAWINGS S4116-E1 & E3.

1. NEW OPTUS OUTDOOR CABINETS, ANTENNAS, RRU'S, ANCILLARY EQUIPMENT AND ALL OTHER EXTERNALLY VISIBLE SURFACES TO BE PAINTED IN GRAY COLOUR.
2. POWER CONDUIT TO BE PAINTED TO COLOUR MATCH BUILDING FACADE BLUE IN COLOUR.

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1. NEW INDARA STEEL STRUCTURE.
REFER TO DRG. S4716-S1 TO S12 & LETHLEAN/INDARA CERTIFICATE FOR DETAILS.
2. ANTENNA MAINTENANCE ACCESS EWP ONLY BY QUALIFIED PERSONNEL ONLY.
3. CORROSION RATING - HIGH (C5). REFER TO DRG. S4716-S1 FOR COATING DETAILS.

STRUCTURAL ADEQUACY OF OUTDOOR CABINET (2-BAY) PLATFORM HAS BEEN CONFIRMED BY LETHLEAN ENGINEERING. REFER TO LETHLEAN/INDARA CERTIFICATE FOR DETAILS.

THIS SITE SHALL BE LINKED TO THE NETWORK VIA OPTIC FIBRE. FOR RADIO LINKS, WORKS AT THE LINK SITE SHALL BE CARRIED OUT IN ACCORDANCE WITH LINK SITE'S TRANSMISSION DRAWINGS, ISSUED SEPARATELY.



CPS
TECHNOLOGY & INFRASTRUCTURE

OPTUS

Project: **MOBILE NETWORK
AUSTRALIA
SITE No:- S4116
COLLAROY BEACH 2
1058 PITTWATER RD, COLLAROY**

Drawing Title:

SITE SPECIFICATIONS

Drawing Status:	Drawing No.	Revision
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Drawing No.
S4116-G1

Drawing Status: **FOR CONSTRUCTION**

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NOTES:

1. ALL INFORMATION TO BE CHECKED ON SITE PRIOR TO FABRICATION AND CONSTRUCTION.
2. SERVICES INFORMATION CONTAINED ON THIS DRAWING IS INDICATIVE ONLY AND REFERENCE SHOULD BE MADE TO THE AUTHORITIES DRAWINGS TO CONFIRM ACCURACY AND COMPLETENESS. WHERE INFORMATION IS AVAILABLE, THE SUB-SURFACE SERVICES INSTALLED BY AGENTS OTHER THAN AUTHORITIES HAVE BEEN SHOWN, BUT ADDITIONAL UNDOCUMENTED SERVICES MAY BE PRESENT. SHOULD THE CONTRACTOR BELIEVE THAT SUB-SURFACE SERVICES ARE AT RISK OF DAMAGE DURING CONSTRUCTION, THE CONTRACTOR SHOULD NOTIFY THE RELEVANT AUTHORITIES AND ESTABLISH THE EXACT LOCATION OF THE SERVICES.
3. POWER CONDUIT TO BE PAINTED TO MATCH BUILDING FACADE BLUE IN COLOUR.

LEGEND:

- — — — — PROPERTY BOUNDARY
— — — — — NEW INDARA LEASE AREA
— — — — — OSE
— — — — — NEW OPTUS SURFACE MOUNTED SUBMAINS

INDICATIVE SHORELINE

NEW OPTUS MERCS-1 ON ACCESS LADDER

NEW OPTUS POWER CABLE TO RUN ON THE BUILDING FACADE FROM EXISTING MSB WITHIN NEW SURFACE MOUNTED CONDUIT. REFER TO NOTE 3

EXISTING FLUSHED MSB

NEW OPTUS CHANGEOVER BOARD

TEMPORARY WORKS SET UP AREA ON COUNCIL LAND / PARKING LOT. PLEASE ENSURE ALL NECESSARY PERMITS ARE ACQUIRED PRIOR TO COMMENCING WORKS

COLLARROY BEACH

LOT 245
DP 1178957

1
G3

EXISTING TREE (TYP.)
EXISTING BUILDING (TYP.)
THE BEACH CLUB
COLLARROY BUILDING
NEW INDARA INSTALLATION

PITTWATER ROAD

COLLARROY STREET

OVERALL SITE PLAN
SCALE 1:500

Client

Drawing Title

Project
**MOBILE NETWORK
AUSTRALIA
SITE No:- S4116
COLLARROY BEACH 2
1058 PITTWATER RD, COLLARROY**

OVERALL SITE PLAN

Client
OPTUS

CPS
TECHNOLOGY & INFRASTRUCTURE

Approval

HA RP

HA RP

HA RP

HA RP

HA RP

HA RP

HA RP

HA RP

Revision

S4116-G2

B

Revision

S4116-G2

B

Revision

S4116-G2

B

Revision

S4116-G2

B

Revision

S4116-G2

B

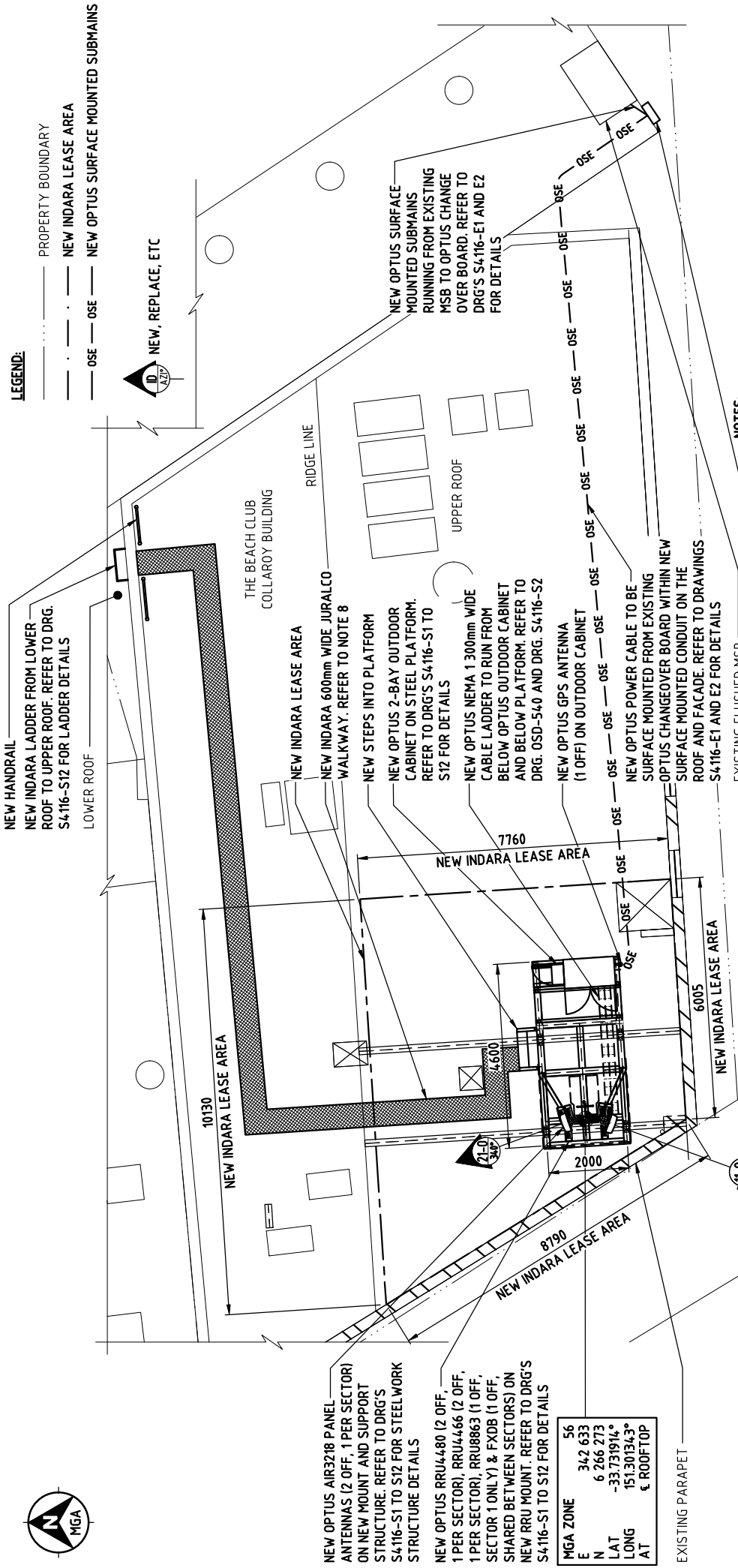
Revision

S4116-G2

B



- LEGEND:**
- PROPERTY BOUNDARY
 - NEW INDARA LEASE AREA
 - NEW OPTUS SURFACE MOUNTED SUBMANS
 - NEW, REPLACE, ETC



- NOTES:**
- ALL ORIENTATIONS ARE IN DEGREES RELATIVE TO M.G.A. NORTH.
 - ALL DIMENSIONS ARE IN mm UNLESS STATED OTHERWISE.
 - REFER TO DRAWING S4116-A1, A2 & P1-2 FOR ANTENNA SYSTEM CONFIGURATION.
 - REFER TO DRAWING S4116-F1 FOR ODU LAYOUT.
 - ALL INFORMATION TO BE CHECKED ON SITE PRIOR TO FABRICATION AND CONSTRUCTION.
 - LOCATION OF ALL UNDERGROUND SERVICES TO BE DETERMINED PRIOR COMMENCEMENT OF CONSTRUCTION. CONTACT 'DIAL BEFORE YOU DIG'.
 - PLEASE NOTE TEMPORARY WORKS SET UP AREA IS SITUATED ON COUNCIL LAND AND WILL REQUIRE PERMITS TO BE GRANTED. BUILD CONTRACTOR TO ORGANIZE AND CONFIRM WITH COUNCIL FOR ACCESS.
 - BUILD CONTRACTOR TO CONFIRM MOST SUITABLE ROUTE TO ENSURE NO EXISTING INFRASTRUCTURE IS DISRUPTED.

TEMPORARY WORKS SET UP AREA. REFER NOTE 7

DETAIL 1/100
SCALE 1:100

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Rev	Date	Revision Details	Consultant	CD	Designer	Verifier	Approval
B	13/12/24	ISSUED FOR CONSTRUCTION (SHOULD DERIVED FROM PROPOSAL)	CPS TECH	JH	HA	HA	RP
A	12/12/24	ISSUED FOR CONSTRUCTION	CPS TECH	JH	HA	HA	RP

Client

Project

MOBILE NETWORK AUSTRALIA
SITE No:- S4116
COLLARROY BEACH 2
1058 PITTWATER RD, COLLAROY

Drawing Title

SITE LAYOUT AND SETOUT PLAN

Drawing Status

FOR CONSTRUCTION

Drawing No.

S4116-G3

Revision

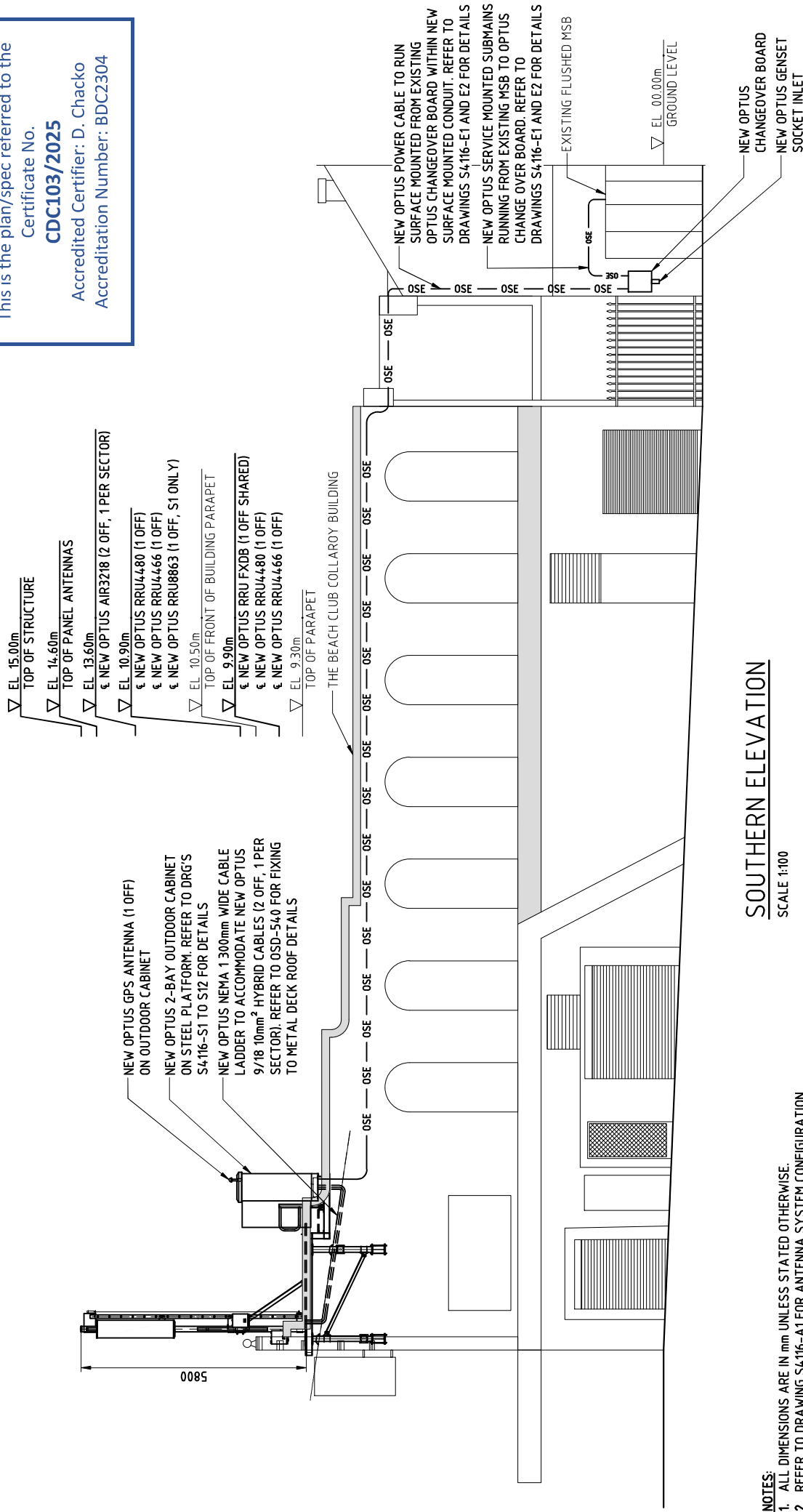
B

Scale

50mm

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SOUTHERN ELEVATION

SCALE 1:100

- NOTES:**
1. ALL DIMENSIONS ARE IN mm UNLESS STATED OTHERWISE.
 2. REFER TO DRAWING S4-116-A1 FOR ANTENNA SYSTEM CONFIGURATION.
 3. REFER TO DRAWING S4-116-F1 FOR ODU LAYOUT.
 4. ALL INFORMATION TO BE CHECKED ON SITE PRIOR TO FABRICATION AND CONSTRUCTION.
 5. LOCATION OF ALL UNDERGROUND SERVICES TO BE DETERMINED PRIOR COMMENCEMENT OF CONSTRUCTION. CONTACT 'DIAL BEFORE YOU DIG'.

[illegible]

Client

OPTUS

Project: MOBILE NETWORK
AUSTRALIA
SITE No:- S4116
COLLARROY BEACH 2
1058 PITTWATER RD, COLLARROY

Drawing Title:

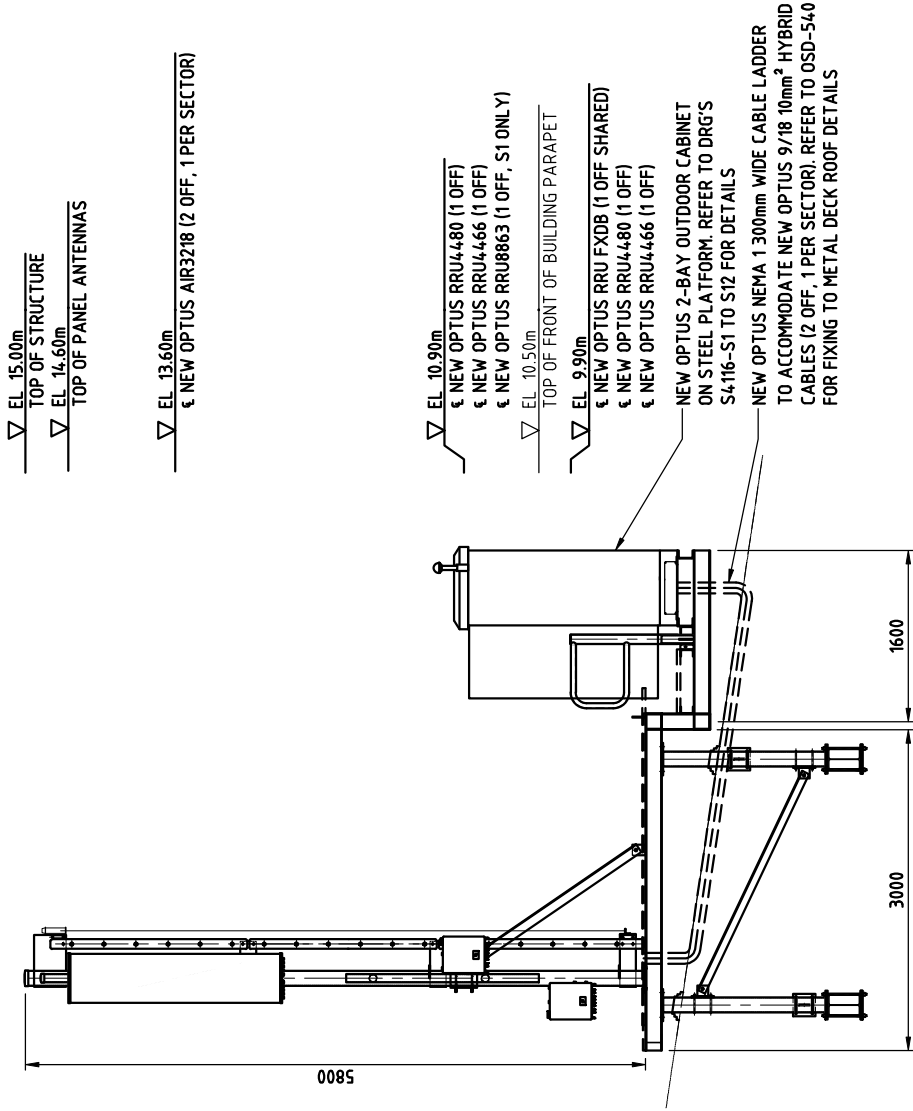
SITE ELEVATION SHEET 1 OF 2

Drawing Status: **FOR CONSTRUCTION**

Drawing No.	Revision
S4116-G4	B

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PART SOUTHERN ELEVATION

SCALE 1:50

Project				Drawing Title			
MOBILE NETWORK AUSTRALIA SITE No:- S4116 COLLARROY BEACH 2 1058 PITTWATER RD, COLLARROY				SITE ELEVATION SHEET 2 OF 2			
Client				Drawing Status			
CPS TECHNOLOGY & INFRASTRUCTURE				FOR CONSTRUCTION			
OPTUS				Drawing No.			
				S4116-G4-1			
				Revision			
				B			
				20		10	
				0		10	
				20		30	
				40		50mm	
				A3			

ANTENNA DETAILS					
PHYSICAL ANTENNA GROUP (N2)		1			
CO-ORDINATES (N5)	LATITUDE LONGITUDE	-33.73191 151.30134			
ANTENNA OPERATOR		OPTUS			
PHYSICAL ANTENNA NUMBER (N3)		1			
PHYSICAL ANTENNA ID (N4)		11-O			
ANTENNA ALIAS		12-PORT MED IPAA			
ANTENNA STATUS		NEW			
PHYSICAL AZIMUTH (*) (N6)		200			
PHYSICAL ANTI CL EL (m) (N7)		13.6			
MECH DOWN-TILT (*)		0			
MODEL NO.		AIR3218 (Passive) + AR3258 BTB/(AAU)			
MANUFACTURER		ERICSSON			
TYPE		PASSIVE ACTIVE			
NO. OF RF PORTS / TX/RX		12 32T 32R			
PORT TYPE		4.3-10 SFP			
BAND CAPABILITY		07 / 06 / 18 / 21 / 23 / 26 35			
DIMENSIONS (HxWxD) (mm)		2000 x 468 x 180			
WEIGHT (kg)		58			
RF SECTOR & BAND ALLOCATION					
RF SECTOR ID / SUB-SECTOR D					
1					
PHYSICAL ARRAY ID		L11	L21	H12	H22
LOGICAL ANTENNA PORT		LP1 & LP2	LP3 & LP4	LP5 & LP6	LP7 & LP8
PHYSICAL ANTENNA PORT (OEM LABEL)		3 & 4	1 & 2	7 & 8	11 & '2
ETILT (N8)		6	6	2	2
ARRAY BEAM OFFSET (*)		0			
ARRAY BEAM AZIMUTH (*)		200			
ARRAY BAND CAPABILITY		7 & 9	18.21, 23.26	18.21, 23.26	18.21, 23.26
ASSIGNED ARRAY OPERATOR		0	0	0	0
ASSIGNED RF PORT FREQUENCY1		07/09	07/09	23	23
ASSIGNED RF PORT FREQUENCY2			09		
ASSIGNED RF PORT FREQUENCY3					
ASSIGNED RF PORT FREQUENCY4					

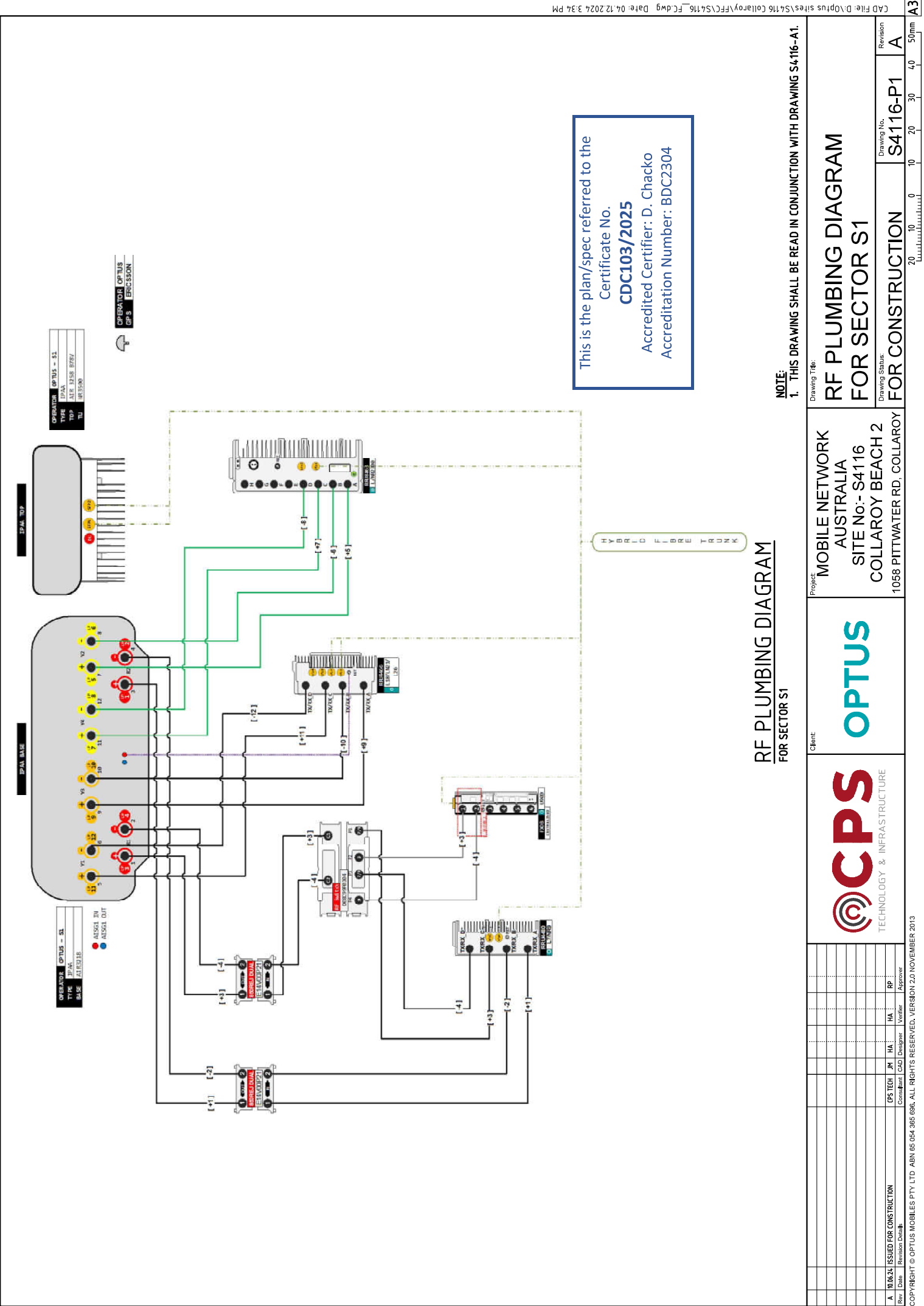
NOTES:

1. THIS ANTENNA TABLE SHALL BE READ IN CONJUNCTION WITH THE DETAIL RF PLUMBING DRAWING FOR THIS SITE.
2. A PHYSICAL SECTOR GROUP IS DEFINED AS A GROUP OF ANTENNAS GENERALLY ORIENTATED WITH SIMILAR AZIMUTHS AND EACH GROUP IS ASSIGNED A NUMBER 1, 2, 3, 4, ETC. THE PHYSICAL SECTOR GROUP MAY INCLUDE SINGLE BEAM OR MULTI-BEAM ANTENNAS.
3. IN THE CASE OF MULTI-BEAM ANTENNAS THE RF SECTOR MAY DIFFER TO THE PHYSICAL SECTOR.
4. THE PHYSICAL ANTENNA NUMBER IS DEFINED BY ASSIGNING SEQUENCED NUMBERS TO EACH JV OPERATOR'S ANTENNAS WITHIN A PHYSICAL SECTOR GROUP, STARTING FROM LEFT TO RIGHT, TOP TO BOTTOM.
5. THE PHYSICAL ANTENNA ID IS DEFINED BY THE NUMBER MADE UP BY CONCATENATING THE PHYSICAL SECTOR GROUP NUMBER WITH THE PHYSICAL ANTENNA NUMBER & THE FIRST LETTER FROM THE OPERATORS NAME OR JOINT (O, V, J), SAME AS THE SAO NUMBER, AS SPECIFIED IN OSD-070 SECTION 5.6.
6. ANTENNA CO-ORDINATES ARE TO BE IN GDA94/GDA2020 REFERENCE SYSTEM, SPECIFIED FOR CENTRE OF EACH SECTOR TO NEAREST METRE.
7. THE PHYSICAL AZIMUTH (°) IS DEFINED AS THE DIRECTION OF THE PHYSICAL ANTENNA BORE SIGHT WITH RESPECT TO TRUE NORTH, AZIMUTHS OF EACH BEAM OF MULTI-BEAM ANTENNAS ARE NOT DOCUMENTED IN THIS TABLE.
8. THE PHYSICAL ANT CL EL (m) IS DEFINED AS THE MID-HEIGHT OF THE PHYSICAL ANTENNA, THE HEIGHT OF INDIVIDUAL BEAMS OR DIFFERENT SEGMENTS OF MULTI-BEAM OR HYBRID ANTENNAS (IPAA) ARE NOT DOCUMENTED IN THIS TABLE.
9. ELECTRICAL DOWN-TILTS ARE ONLY ACCURATE AT TIME OF BUILD AS THEY ARE FREQUENTLY OPTIMISED. ALWAYS REFER TO CURRENT VALUES IN MNIS.

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		Client: 		Project: MOBILE NETWORK AUSTRALIA SITE No:- S4116 COLLAROY BEACH 2 1058 PITTWATER RD, COLLAROY		Drawing Title: PHYSICAL ANTENNA SYSTEM CONFIGURATION																									
<table border="1"> <thead> <tr> <th>Rev.</th> <th>Date</th> <th>Revision Details</th> <th>Consultant</th> <th>CAD</th> <th>Designer</th> <th>Verifier</th> <th>Approver</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>12.07.24</td> <td>ISSUED FOR CONSTRUCTION (M-TILT & E-TILT UPDATE)</td> <td>CPS TECH</td> <td>JM</td> <td>HA</td> <td>HA</td> <td>RP</td> </tr> <tr> <td>A</td> <td>22.10.24</td> <td>ISSUED FOR CONSTRUCTION</td> <td>CPS TECH</td> <td>JM</td> <td>HA</td> <td>HA</td> <td>RP</td> </tr> </tbody> </table>		Rev.	Date	Revision Details	Consultant	CAD	Designer	Verifier	Approver	B	12.07.24	ISSUED FOR CONSTRUCTION (M-TILT & E-TILT UPDATE)	CPS TECH	JM	HA	HA	RP	A	22.10.24	ISSUED FOR CONSTRUCTION	CPS TECH	JM	HA	HA	RP	Drawing Status: FOR CONSTRUCTION		Drawing No.: S4116-A1		Revision B	
Rev.	Date	Revision Details	Consultant	CAD	Designer	Verifier	Approver																								
B	12.07.24	ISSUED FOR CONSTRUCTION (M-TILT & E-TILT UPDATE)	CPS TECH	JM	HA	HA	RP																								
A	22.10.24	ISSUED FOR CONSTRUCTION	CPS TECH	JM	HA	HA	RP																								
				20 10 0 10 20 30 40 50mm																											

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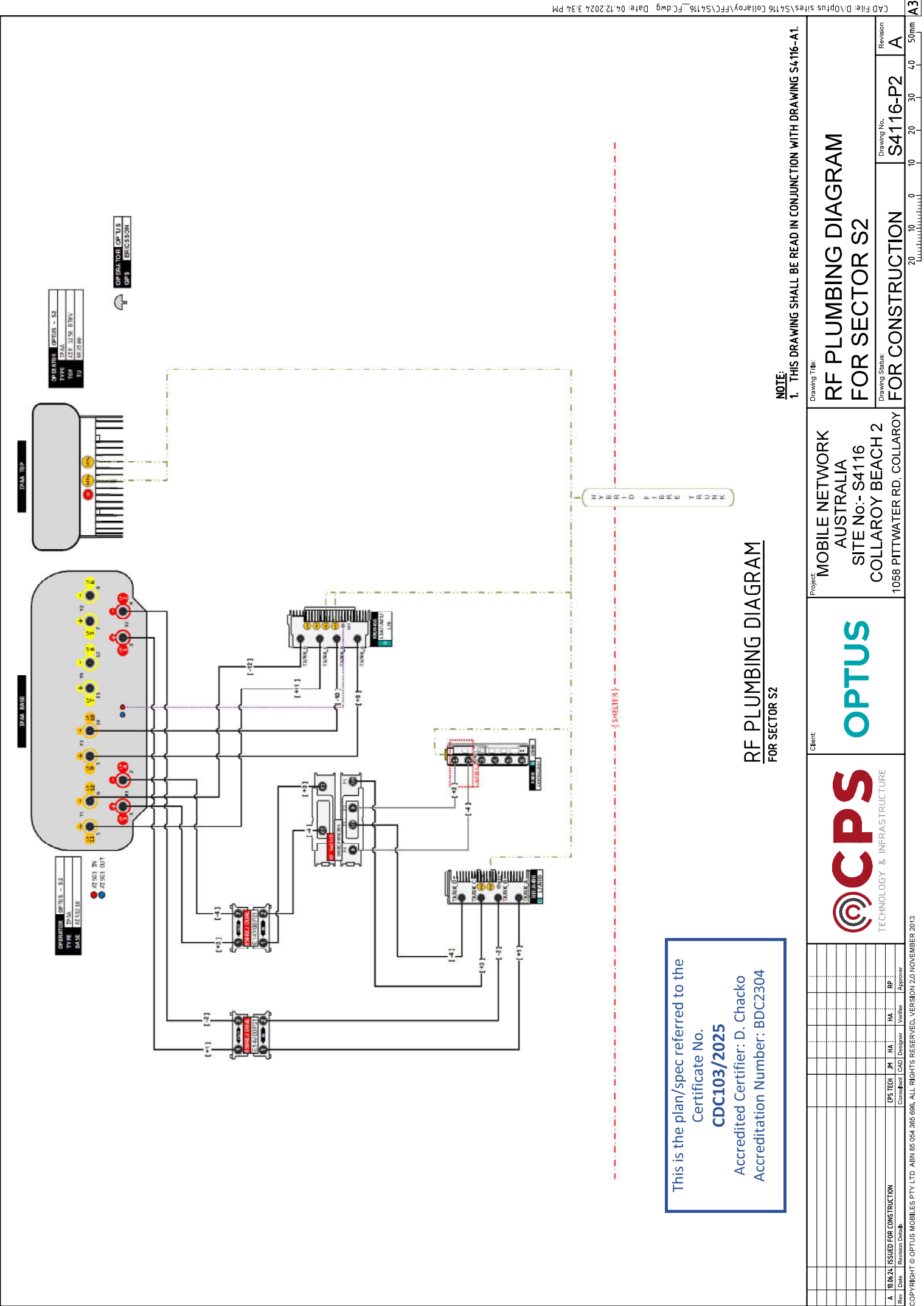


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RF PLUMBING DIAGRAM
FOR SECTOR S1

NOTE:
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWING S4116-A1.

CA File: D:\Optus										A3																			
Project: MOBILE NETWORK AUSTRALIA SITE No:- S4116 COLLAROY BEACH 2 1058 PITTSWATER RD, COLLAROY										Client:  										Drawing Title: RF PLUMBING DIAGRAM FOR SECTOR S1									
Drawing Status: FOR CONSTRUCTION										Drawing No. S4116-P1										Revision A									
20 10 0 10 20 30 40 50mm																													



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RF PLUMBING DIAGRAM FOR SECTOR S2

NOTE:
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWING S4116-A1.

				Client				Project			
								MOBILE NETWORK AUSTRALIA SITE No:- S4116 COLLARROY BEACH 2 1058 PITTSWATER RD, COLLARROY			
								Drawing Title: RF PLUMBING DIAGRAM FOR SECTOR S2			
								Drawing No. S4116-P2			
								Revision A			
								Drawing Status: FOR CONSTRUCTION			
								20 10 0 10 20 30 40 50mm			
								A3			

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1. CORROSIVITY ENVIRONMENT (EXTERNAL) IS "C5" (VERY HIGH) IN ACCORDANCE WITH AS4312.

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1. CORROSIVITY ENVIRONMENT (EXTERNAL) IS "C5" (VERY HIGH) IN ACCORDANCE WITH AS4312.

2. ALL EXTERNAL STEELWORK TO BE PROTECTED AS FOLLOWS:
 - PREPARE & GALVANISE IN ACCORDANCE WITH AS4680
 - REMOVE ANY DIRT AND GREASE FROM SURFACES TO BE COATED AS PER AS 1627.1
 - LIGHTLY WHIP ABRASIVE BLAST THE NEW GALVANISING AS PER AS 1627.4 TO PROVIDE A UNIFORMLY ROUGHENED SURFACE USING A NON-METALLIC ABRASIVE. AVOID CAUSING EXCESSIVE DAMAGE TO THE GALVANISING. ALL SURFACES ARE TO BE CLEAN AND DRY BEFORE COATING AND BETWEEN COATS.
 - APPROVED COATING SYSTEMS:

CARBOLINE	PRODUCT	DFT/WF T (μm)	RECOAT (MIN/MAX) @ 25 °C	SOLVENT
PRIMER	TP VINYL PRIMER	60 120	16 HRS INDEF	No 10
FINISH COAT (1):	TP VINYL TOPCOAT	60 120	16 HRS INDEF	No 10
FINISH COAT (2):	TP VINYL TOPCOAT	60 120	16 HRS INDEF	No 10

- MORE THAN ONE APPLICATION OF EACH COAT MAY BE REQUIRED TO ACHIEVE THE NOMINATED DFT.
 - VINYL DRY SLOWER THAN MANY CATALYSED COATINGS, MEANING SHOP TURN-AROUND TIMES MAY BE LONGER TO MINIMISE DAMAGE.
 - THE SPECIFIED MINIMUM DFT IS TO BE ACHIEVED OVER THE INDICATED NUMBER OF COATS, TOTAL MINIMUM DFT IS TO BE 180 MICRONS, MEASURED OVER THE GALVANISING IN ACCORDANCE WITH AS 3894.3.
 - THE FINISH COLOUR IS TO MATCH THE EXISTING BUILDING. REFER GENERAL DRAWINGS FOR SPECIFIC COLOUR.
 - THE USE OF THINNERS OTHER THAN THOSE SPECIFIED BY THE MANUFACTURER IS NOT PERMITTED.
3. ALL INTERNAL STEEL WORK TO BE HOT DIP GALVANISED ONLY.

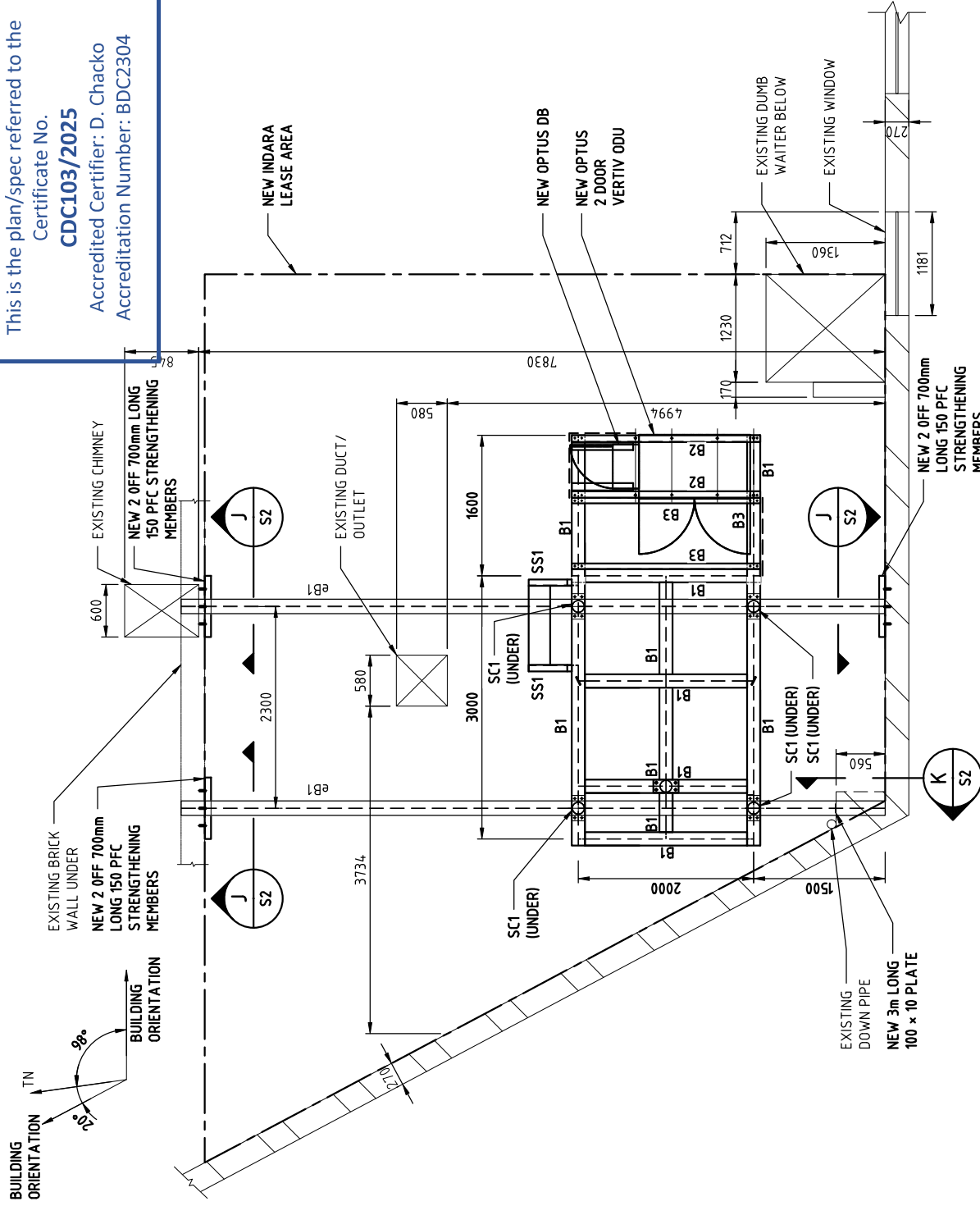
1. INSTALL UNDER-ROOF BEAM SUPPORTS AND HOLD DOWN (4 LOCATIONS).
2. INSTALL UNDER-ROOF STUB COLUMNS (4 OFF) AND ASSOCIATED

3. MEASURE FINAL PRECISE DIMENSIONS BETWEEN UNDER-ROOF STUB COLUMNS IN EAST-WEST DIRECTION. DRILL HOLES IN BASE FRAME BEAMS TO SUIT THESE DIMENSIONS.
4. LIFT OVERALL BASE FRAME FROM GROUND ONTO ROOF AND ONTO THE PRE-INSTALLED UNDER-ROOF STUB COLUMNS (NOTE THAT BASE FRAME IS PRE-CAMBERED PRIOR TO INSTALLATION OF ODU).
5. LIFT 2 DOOR ODU UNIT AND BOLT IT INTO PLACE ONTO BASE FRAME. CHECK FRAME IS LEVEL. SHIM IF REQUIRED.
6. LIFT FULLY FITTED OUT MOUNT STRUCTURE ONTO FRAME.
7. INSTALL PLATFORM GRATING & HANDRAILS.

NOTES:
REFER DRAWING S4-116-S12 FOR STEEL MEMBER SCHEDULE

Drawing Status:	Drawing No.	Revision
FOR CONSTRUCTION	S4116-S1	B

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PLAN
SCALE 1:50

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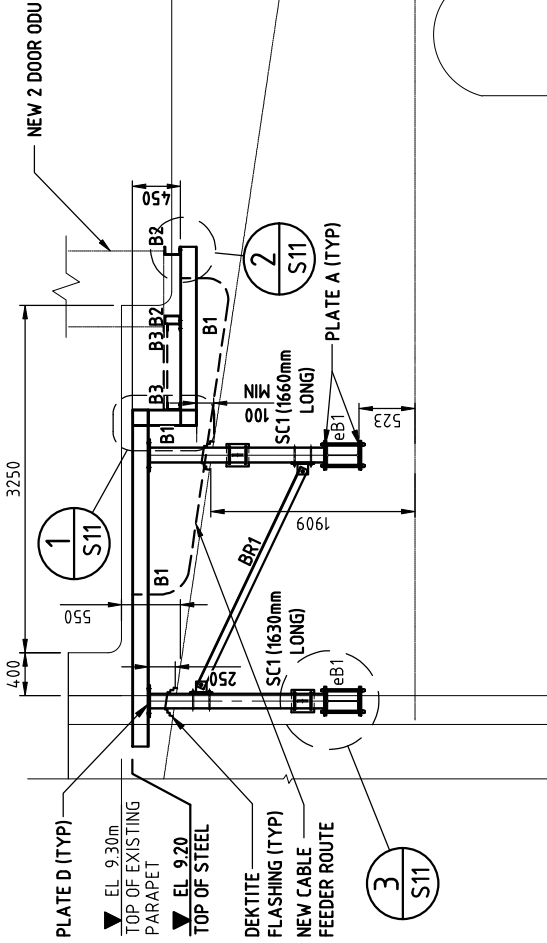
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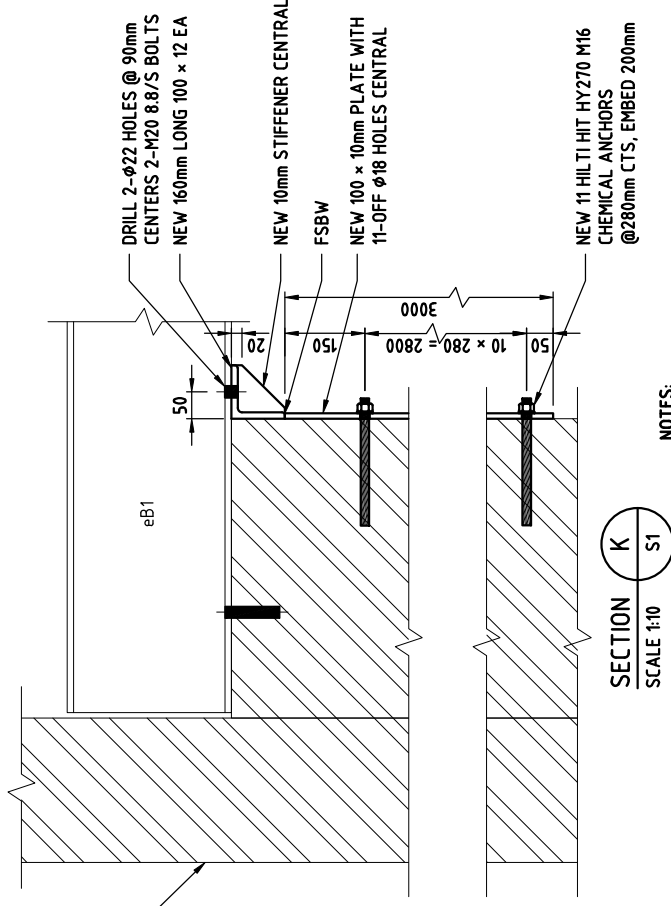
Project: **MOBILE NETWORK
AUSTRALIA**
SITE No:- S4116
COLLARROY BEACH ;
1058 PITTWATER RD, COLLARROY

Drawing Title

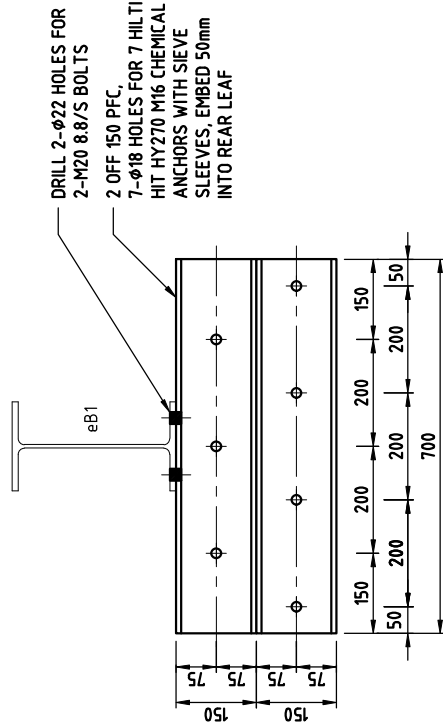
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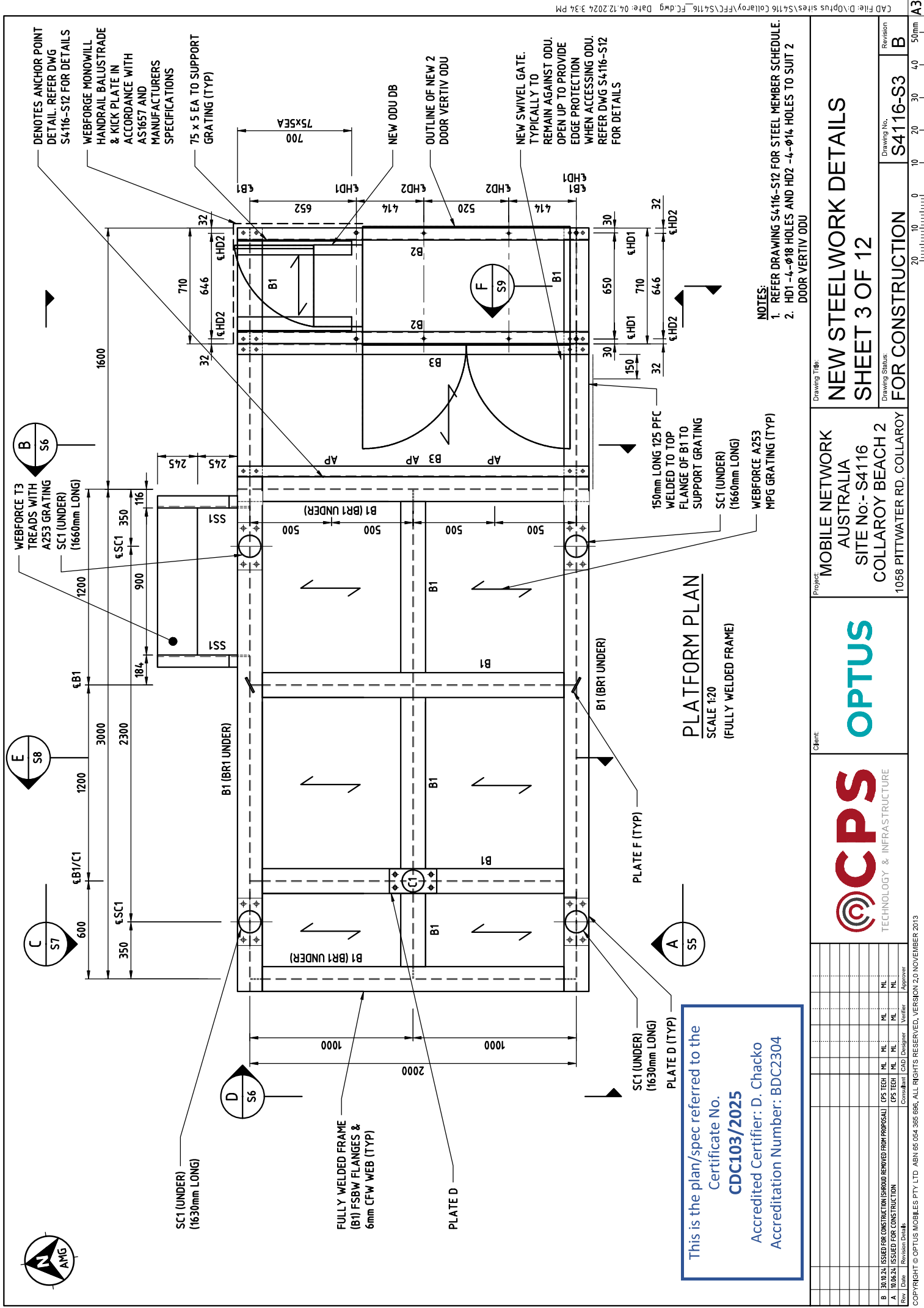
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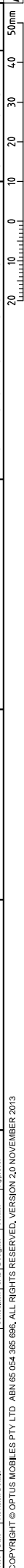


NOTES:
REFER DRAWING S4116-S12 FOR STEEL MEMBER SCHEDULE



Project		Client		Drawing Title	
MOBILE NETWORK AUSTRALIA		OPTUS		NEW STEELWORK DETAILS	
SITE No:- S4116		CPS TECHNOLOGY & INFRASTRUCTURE		SHEET 2 OF 12	
COLLARROY BEACH 2		1058 PITTSWATER RD. COLLARROY		FOR CONSTRUCTION	
Drawing Status		Drawing No.		Revision	
S4116-S2		S4116-S2		B	
20		10		0	
20		10		20	
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20		10		40	
20		10		50mm	





NEW STEELWORK DETAILS
SHEET 5 OF 12

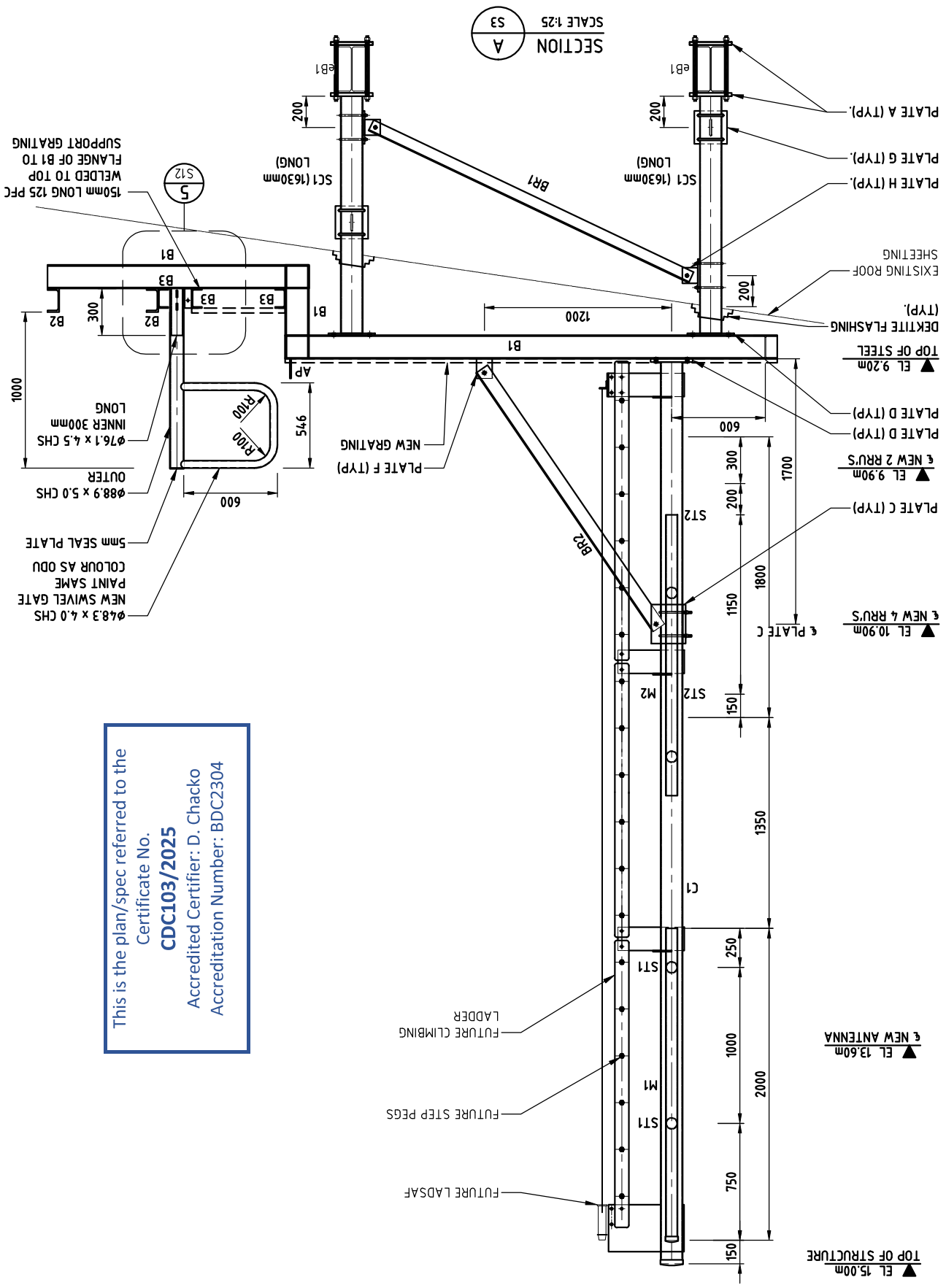
Project: MOBILE NETWORK
AUSTRALIA
SITE No:- S4116
COLLARROY BEACH 2
1058 PITTWATER RD, COLLARROY

OPTUS



CPS
TECHNOLOGY & INFRASTRUCTURE

Rev	Date	Revision Details	Checker	CAD Designer	ML	ML	ML
B	30.06.24	ISSUED FOR CONSTRUCTION (SHOULD BE REMOVED FROM PROPOSAL)	EPS TECH	ML	ML	ML	ML
A	10.06.24	ISSUED FOR CONSTRUCTION	EPS TECH	ML	ML	ML	ML
Rev	Date	Revision Details	Consultant	CAD Designer	Checker	ML	Assesser



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Certificate No.
CDC103/2025
Accredited Certifier: D. Chacko
Accreditation Number: BDC2304

CLIMBING LADDER, STEP PEGS AND LADSAF
NOT TO BE INSTALLED

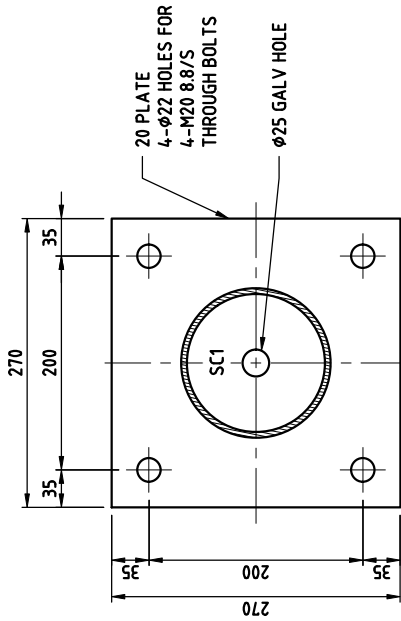


PLATE A
SCALE 1:5

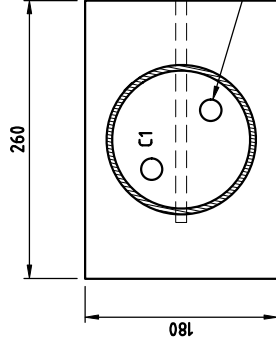


PLATE B
SCALE 1:5

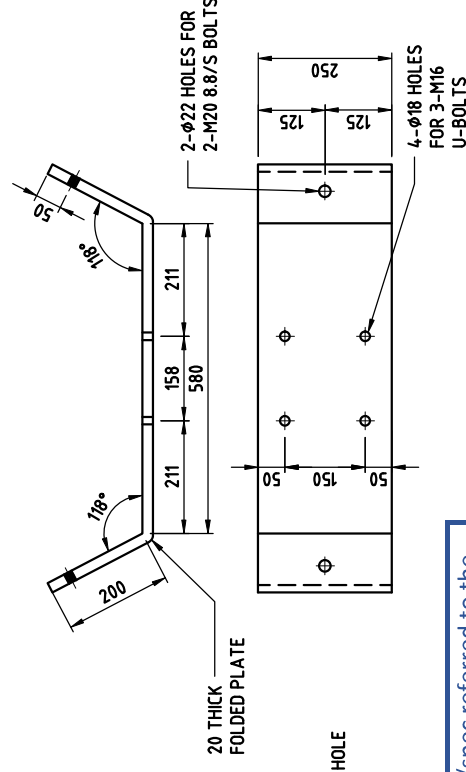


PLATE C
SCALE 1:10

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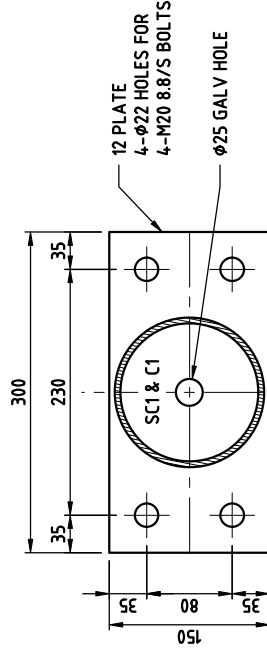


PLATE D
SCALE 1:5

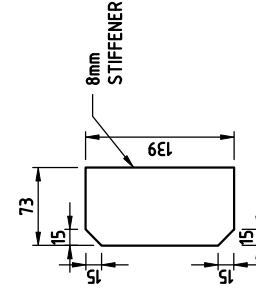


PLATE E
SCALE 1:5

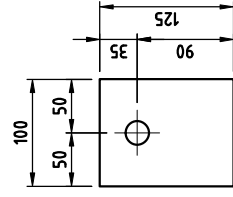


PLATE F
SCALE 1:5

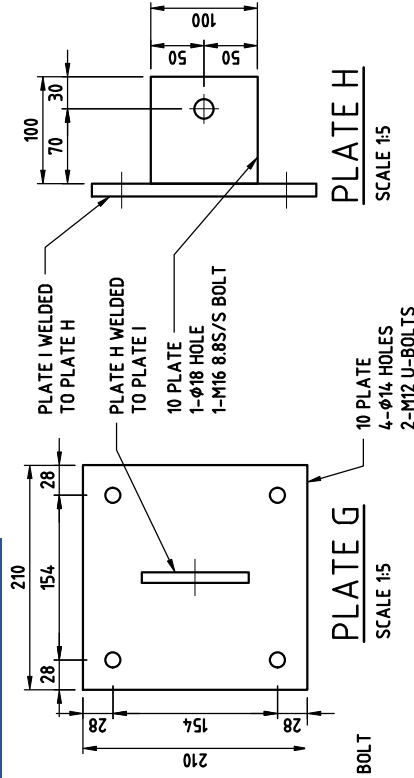


PLATE G
SCALE 1:5

PLATE H
SCALE 1:5

Rev	Date	Revision Details	Consultant	CAD	Designer	Verifier	Approver
B	30.02.24	ISSUED FOR CONSTRUCTION (SHOULD REMOVED FROM PROPOSAL)	CPS TECH	ML	ML	ML	ML
A	10.06.24	ISSUED FOR CONSTRUCTION	CPS TECH	ML	ML	ML	ML

CPS
TECHNOLOGY & INFRASTRUCTURE

OPTUS

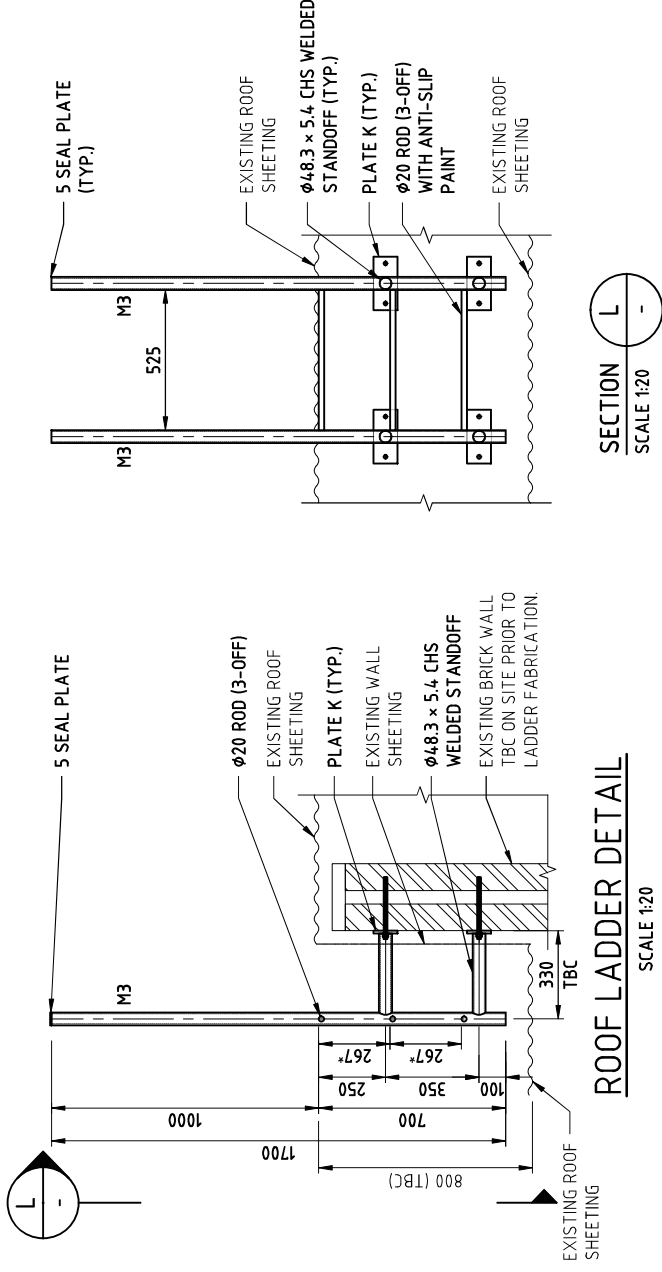
Project: MOBILE NETWORK AUSTRALIA
SITE No:- S4116
COLLAROY BEACH 2
1058 PITTSWATER RD. COLLAROY

Drawing Title: NEW STEELWORK DETAILS
SHEET 10 OF 12
FOR CONSTRUCTION

Drawing No.	Revision
S4116-S10	B

STEEL MEMBER SCHEDULE

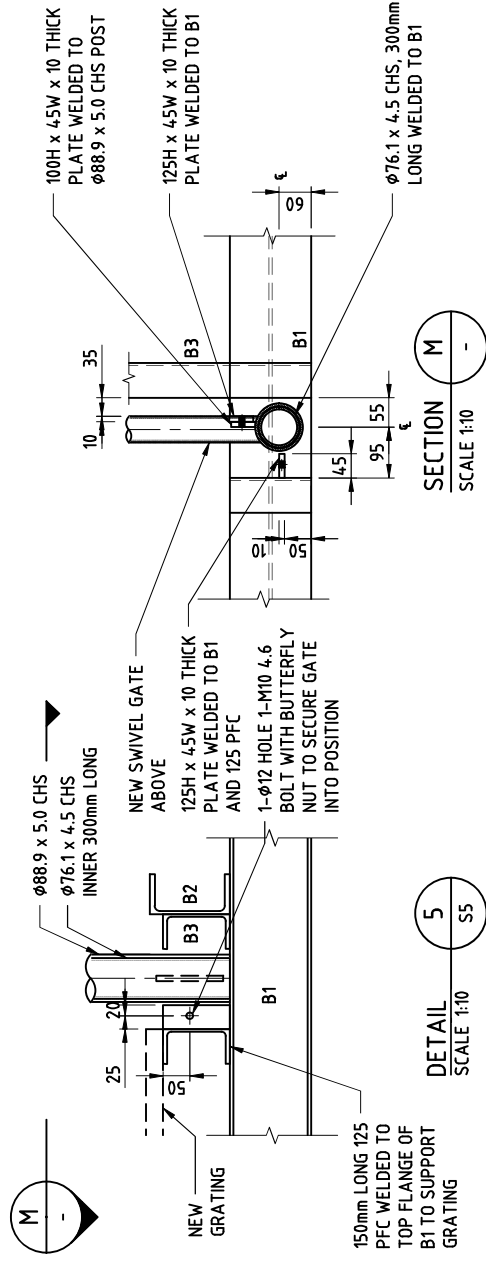
MARK	MEMBER SIZE	STATUS	REMARKS	LENGTHS (mm)	QUANTITY
eB1	310UB46	EXISTING	BEAM	-	2
B1	150UC23	NEW	BEAM	VARIES	13
B2	150 PFC	NEW	BEAM	2'150	2
B3	125 PFC	NEW	BEAM	2'150	2
C1	ø139.7 x 5.4 CHS	NEW	CLIMBING POLE	5800	1
M1	ø76.1 x 5.4 CHS	NEW	ANTENNA MOUNT	2000	2
M2	ø76.1 x 5.4 CHS	NEW	RRU MOUNT	1800	2
M3	ø48.3 x 5.4 CHS	NEW	LADDER MOUNT	1700	2
ST1	ø76.1 x 5.4 CHS	NEW	STAND-OFF MOUNT	200	4
ST2	ø76.1 x 5.4 CHS	NEW	STAND-OFF MOUNT	350	4
BR1	75 x 5 EA	NEW	BRACING	VARIES	4
BR2	90 x 6 EA	NEW	BRACING	2010 (EST)	2
SC1	ø139.7 x 5.4 CHS	NEW	STUB COLUMN	1630/1660	4
SS1	150 PFC	NEW	STAIR STRINGER	490	2



ROOF LADDER DETAIL

SCALE 1:20

* LADDER RISE OF 267 IS BASED UPON ASSUMED ROOF STEP OF 800mm, WILL NEED TO BE ADJUSTED IF ROOF STEP IS DIFFERENT



DETAIL

SECTION M

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CDC103/2025
Accredited Certifier: D. Chacko
Accreditation Number: BDC2304

ANCHOR POINT DETAIL

SCALE 1:10
DENOTES 'AP' ON PLAN

[illegible]

1. GENERAL

ALL ELECTRICAL WORKS SHALL BE IN ACCORDANCE:

- LATEST OPTUS D&C SPECIFICATIONS
- AS/NZS 3000, AS/NZS 3008, AS/NZS 1768, AS/NZS 3015, AS/NZS 3010, AS/NZS 4961, AS/NZS 1939, AS/NZS 2648, AS/NZS 3017 AND AS/ACIF 5009 (LATEST EDITIONS AND AMENDMENTS AT TIME OF CONSTRUCTION SHALL APPLY)
- ALL COMPONENTS INSTALLATION MANUALS AND WARRANTY CONDITIONS AS SPECIFIED
- NSW SERVICE INSTALLATIONS RULES
- ANY OTHER RELEVANT NATIONAL/STATE RULES AND REGULATIONS

CONTRACTOR SHALL:

- COMPLY WITH ALL LOCAL, STATE AND TERRITORY WORK, HEALTH AND SAFETY REGULATIONS AND LEGISLATIONS
- APPLY REASONABLE MEASURES AND STEPS TO ACCESS AND OBTAIN INFORMATION ON SERVICES PRESENT ON SITE PRIOR TO COMMENCING ANY WORK (CONSTRUCTION AND/OR EXCAVATION) VIA BYDA SEARCH, UNDERGROUND SERVICES SEARCH SURVEY OR ANY OTHER LEGITIMATE MEANS/SOURCES
- MAKE THEMSELVES AWARE OF ALL SITE CONDITIONS AND SAFETY REQUIREMENTS PRIOR TO COMMENCING WORK ON SITE
- RE-INSTATE AND MAKE GOOD OF ALL DISTURBED KERBS, SURFACES, GUTTERS, INVERTS, VEHICLE CROSSING AND PAVEMENTS DURING UNDERGROUND WIRING INSTALLATIONS
- ENSURE REASONABLE AND ADEQUATE CLEARANCE ESTABLISHED BETWEEN NEW ELECTRICAL INSTALLATIONS AND EXISTING SERVICES (UNDERGROUND, OVERHEAD, SURFACE MOUNTED, RISER, ETC.) AS PER AS/NZS 3000
- ENSURE FAULT CURRENT RATINGS OF PROTECTIVE EQUIPMENT INSTALLED ARE ADEQUATE FOR PROSPECTIVE FAULT LEVELS
- ENSURE CABLE PULLING TENSION AND MINIMUM INSTALLED BENDING RADIUS AS PER CABLE SPECIFICATIONS AND CABLE ROUTES SHALL BE AS DIRECT AS POSSIBLE
- ENSURE ALL EXPOSED CABLE, CONDUITS AND NON-METALLIC FASTENERS BE UV RESISTANT AND ADEQUATELY SECURED TO SURFACE, CABLE TRAY OR STRUCTURE
- ENSURE NO OBSTRUCTIONS PRESENT WITHIN CONDUIT DURING CABLE PULLING
- PROVIDE PERMANENT, INDELEIBLE, LEGIBLE, WITH ACCURATE DIMENSIONS, SUPPLY ARRANGEMENT DIAGRAM(S) PLAN IN OPTUS ISOLATION BOARD, INDICATING CABLES SIZE, TYPE, LENGTH, METHOD OF INSTALLATIONS AND DIRECTIONS

2. MAINS SUPPLY

OPTUS POINT OF SUPPLY NEW 40A THREE PHASES MCB AT EXISTING MAIN SWITCHBOARD. 40A THREE PHASES AC POWER SUPPLY SHALL BE ORIGINATED FROM THIS POINT OF SUPPLY.
PROPERTY AC POWER SUPPLY SHUT DOWN WILL BE REQUIRED. ALTERNATIVE TEMPORARY SUPPLY AND ADEQUATE FUEL SHALL BE PROVIDED BY OPTUS CONTRACTOR FOR DURATION OF ENTIRE SHUT DOWN PERIOD. OPTUS CONTRACTOR SHALL COORDINATE SHUT DOWN WITH PROPERTY OWNER / MANAGEMENT.

3. EXISTING MAIN SWITCHBOARD

OPTUS CONTRACTOR SHALL INSTALL 40A 3P MCB x160 HAGER 1sc 25ka AT ESSENTIAL SERVICES SECTION.
OPTUS CONTRACTOR SHALL INSTALL CHECK METER PANEL AT BOTTOM OF SAME SECTION OF MSB WITH 40A 3P MCB TYPE C, 10ka. SPARE SPACES AVAILABLE FOR MCB, MCB AND CHECK METER.
OPTUS INTERNAL WIRING SHALL BE OF MINIMUM 16mm² SDI.
OPTUS SAFETY EARTH AND NEUTRAL SHALL BE TAKEN FROM EXISTING MEN LINK IN EXISTING MSB.
OPTUS CONTRACTOR SHALL ENSURE FAULT CURRENT RATINGS OF INSTALLED PROTECTIVE EQUIPMENT ARE ADEQUATE FOR PROSPECTIVE FAULT LEVELS.
OPTUS CONTRACTOR SHALL PROVIDE ELECTRICAL COMPLIANCE CERTIFICATE FOR COMPLETED ELECTRICAL WORKS.
OPTUS CONTRACTOR SHALL PROVIDE PHOTOS OF ALL COMPLETED ELECTRICAL WORK SHOWING, LEGIBLE, SITE CIRCUIT BREAKERS RATINGS, SPD SIZE AND SETTING, METERING (NMI NUMBER), MAIN ELECTRICAL EARTHING ELECTRODE LABEL AND ANY TRENCHING AND CONDUIT RUN.

4. SUBMAINS

A - INSTALL NEW 1x4C 16mm² XLPE/PVC + E CABLE AS OPTUS SURFACE MOUNTED SUBMAIN RUNNING FROM EXISTING MSB TO NEW OPTUS CHANGEOVER BOARD, ADJACENT TO EXISTING MSB.
OPTUS SUBMAINS SHALL BE INSTALLED SURFACE MOUNTED IN 50mm HD uPVC CONDUIT.
APPROXIMATE OPTUS SUBMAINS LENGTH, 5m. VOLTAGE DROP 0.11% FOR 40A THREE PHASES LOAD.

B- INSTALL NEW 1x4C 16mm² XLPE/PVC + E CABLE AS OPTUS SURFACE MOUNTED SUBMAIN RUNNING FROM NEW OPTUS CHANGEOVER BOARD TO NEW OPTUS OPTUS ISOLATION BOARD ON ODU AT ROOFTOP LEVEL.
OPTUS SUBMAINS SHALL BE INSTALLED SURFACE MOUNTED IN 50mm HD uPVC CONDUIT.
APPROXIMATE OPTUS SUBMAINS LENGTH, 40m. VOLTAGE DROP 0.85% FOR 40A THREE PHASES LOAD.

5. NEW CONNECTION APPLICATION

ELECTRICITY METERING SOLUTION FOR THIS SITE IS CHECK METER WITH 40 THREE PHASES AC POWER LIMIT.

6. OPTUS CHANGEOVER BOARD

NEW OPTUS WALL MOUNTED CHANGEOVER BOARD SHALL HOST THE FOLLOWINGS:

- INSTALL NEW 1 x 40A THREE PHASE ISOLATOR
- INSTALL NEW 1 x 50A THREE PHASE TYPE-C MCB AS GENERATOR MAIN SWITCH
- INSTALL NEW 63A THREE PHASE CHANGEOVER SWITCH
- INSTALL NEW 1 x 40A THREE PHASE TYPE-C MCB TO PROTECT OPTUS SUBMAINS B
- INTERNAL OPTUS CHANGEOVER BOARD SHALL BE OF MINIMUM 16mm² SDI

7. OPTUS ISOLATION BOARD

NEW OPTUS EXTERNAL DISTRIBUTION BOARD ON NEW OPTUS ODU SHALL HOST THE FOLLOWINGS:

- INSTALL NEW 1 x 40A THREE PHASE DB ISOLATOR
- INTERNAL OPTUS DISTRIBUTION BOARD SHALL BE OF MINIMUM 16mm² SDI

8. LABELLING

FIX STANDARD LABELS TO ALL FUSES, METERS AND SWITCH POSITIONS IN EXISTING MSB AND IN NEW OPTUS CHANGEOVER AND ISOLATION BOARDS. LABELS TO BE BLACK LETTERING ON WHITE BACKGROUND "TRAFFOLYTE". LETTERING TO BE MINIMUM 10mm HIGH. TEXT TO READ "OPTUS".

PROVIDE A LAMINATED COPY OF AC INFRASTRUCTURE SITE LAYOUT - SLD AND (MUD MAP) INDICATING CABLE SIZES TYPE, LENGTH, METHOD OF INSTALLATIONS AND DIRECTION WITH A REFERENCE TO NORTH FOR FUTURE REFERENCE TO BE LEFT IN NEW OPTUS ISOLATION BOARD.

9. EARTHING

NEW EQUIPMENT EARTHING SHALL BE INSTALLED AS PER SITE SPECIFIC EARTHING SYSTEM ON DRAWINGS S4116-E3 AND IN ACCORDANCE WITH:

- OSD-020 (OPTUS EARTHING SPECIFICATIONS)
- OSD-713 (OUTDOOR CABINET GENERAL EARTHING)
- OSD-800 (TYPICAL ROOFTOP SITE EARTHING PLAN)
- OSD-810 (TYPICAL ROOFTOP EARTHING DETAILS AT ANTENNAS)
- OSD-820 (TYPICAL ROOFTOP SITE EARTHING AT SHELTER)
- OSD-830 (EARTH BAR DETAILS)
- OSD-831 (SINGLE POINT EARTH BAR DETAILS)
- ALL REFERENCE OPTUS STANDARD DOCUMENTATION
- MANUFACTURER'S SPECIFICATIONS

INSTALL 1 OFF 3m DEEP EARTH ELECTRODES. IF DRILLING REQUIRED, INSTALL ELECTRODES IN 75mm BOREHOLE FILLED WITH GEM. REFER TO DRAWINGS PER S4116-E3 FOR DETAILS. EARTH RESISTANCE TEST SHALL BE CONDUCTED ON COMPLETION. CONTRACTOR SHALL PROVIDE EARTH RESISTANCE TEST REPORT. IF 5 OHMS TARGET CANNOT BE ACHIEVED REPORT FINDINGS TO CPS TECH FOR FURTHER DIRECTIONS.

10. GENERATOR SUPPLY

GENERATOR INLET SOCKET SHALL BE 50A 5-PIN CLIPSAL COMPATIBLE. REFER TO OSD-620 FOR MANUAL CHANGEOVER SWITCH DETAILS.

INSTALL NEW 50A THREE PHASE MCB TYPE C FOR OPTUS GENSET SUBMAINS (REFER TO DRAWING S4116-E2 FOR DETAILS). OPTUS CONTRACTOR SHALL INSTALL GENERATOR INLET SUBMAINS BETWEEN CHANGE-OVER SWITCH AND GENERATOR INLET RATED FOR 50A (REFER TO AS/NZS 3008.1.1 FOR CABLE SIZING).

THE CONTRACTOR SHALL ENSURE ALL EQUIPMENT AND WIRINGS COMPLY WITH AS/NZS 3010 FOR ALTERNATING GENERATOR SUPPLY. CORRECT SWITCHING OF AUXILIARY (PORTABLE GENERATOR) SUPPLY NEUTRAL ODU CHANGE OVER SWITCH VIA THE INLET PLUG WILL REQUIRE TO BE CONFIGURED AS PER AS/NZS 3010.

This is the plan/spec referred to the Certificate No.

CDC103/2025

Accredited Certifier: D. Chacko

Accreditation Number: BDC2304

Rev	Date	Issued For Construction	Consultant	CAD Designer	Verifier	Approver
A	12/01/24	ISSUED FOR CONSTRUCTION	CPS TECH	JH	HA	RP



Client

Project:
MOBILE NETWORK AUSTRALIA
SITE No:- S4116
COLLARROY BEACH 2
1058 PITTWATER RD, COLLARROY

Drawing Title:

SITE POWER DETAILS

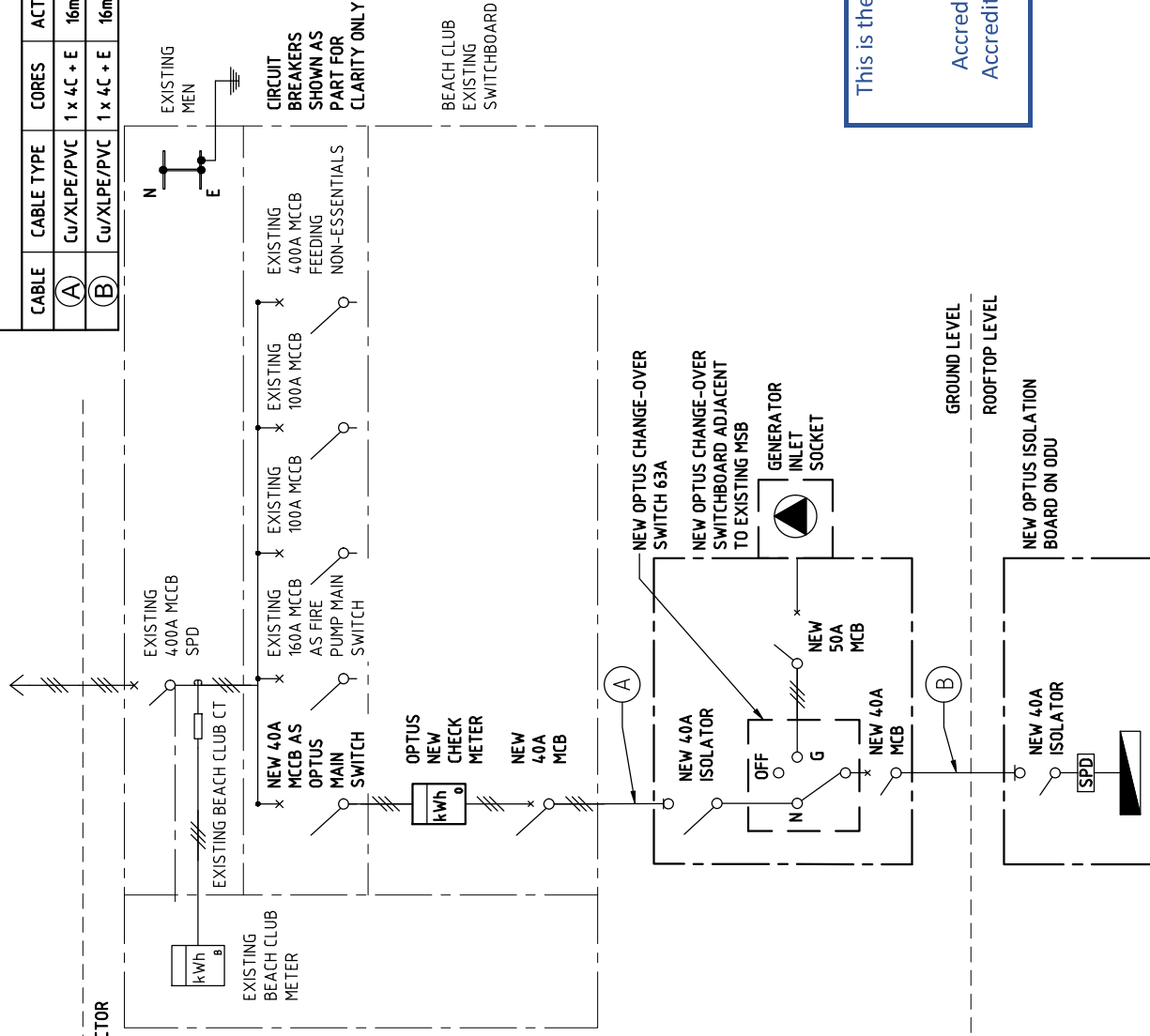
Drawing Status:
FOR CONSTRUCTION

Drawing No.
S4116-E1

Revision

A

CABLE SCHEDULE								
CABLE	CABLE TYPE	CORES	ACTIVE	NEUTRAL	EARTH	CABLE LENGTH	INSTALLATION METHOD	COMMENTS
(A)	Cu/XLPE/PVC	1 x 4C + E	16mm ²	16mm ²	6mm ²	5m	SM IN 50mm uPVC HD CONDUIT	BY OPTUS CONTRACTOR
(B)	Cu/XLPE/PVC	1 x 4C + E	16mm ²	16mm ²	6mm ²	40m	SM IN 50mm uPVC HD CONDUIT	BY OPTUS CONTRACTOR



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NOTES:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH S4116-ET.
2. CABLE LENGTHS GIVEN ARE INDICATIVE ONLY. EXACT CABLE ROUTES AND LENGTHS SHALL BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION.
3. OPTUS INTERNAL ELECTRICAL ENCLOSURE WIRING AND METERING SHALL BE MINIMUM 16mm² SDI.

[illegible]



SCALE 1:100

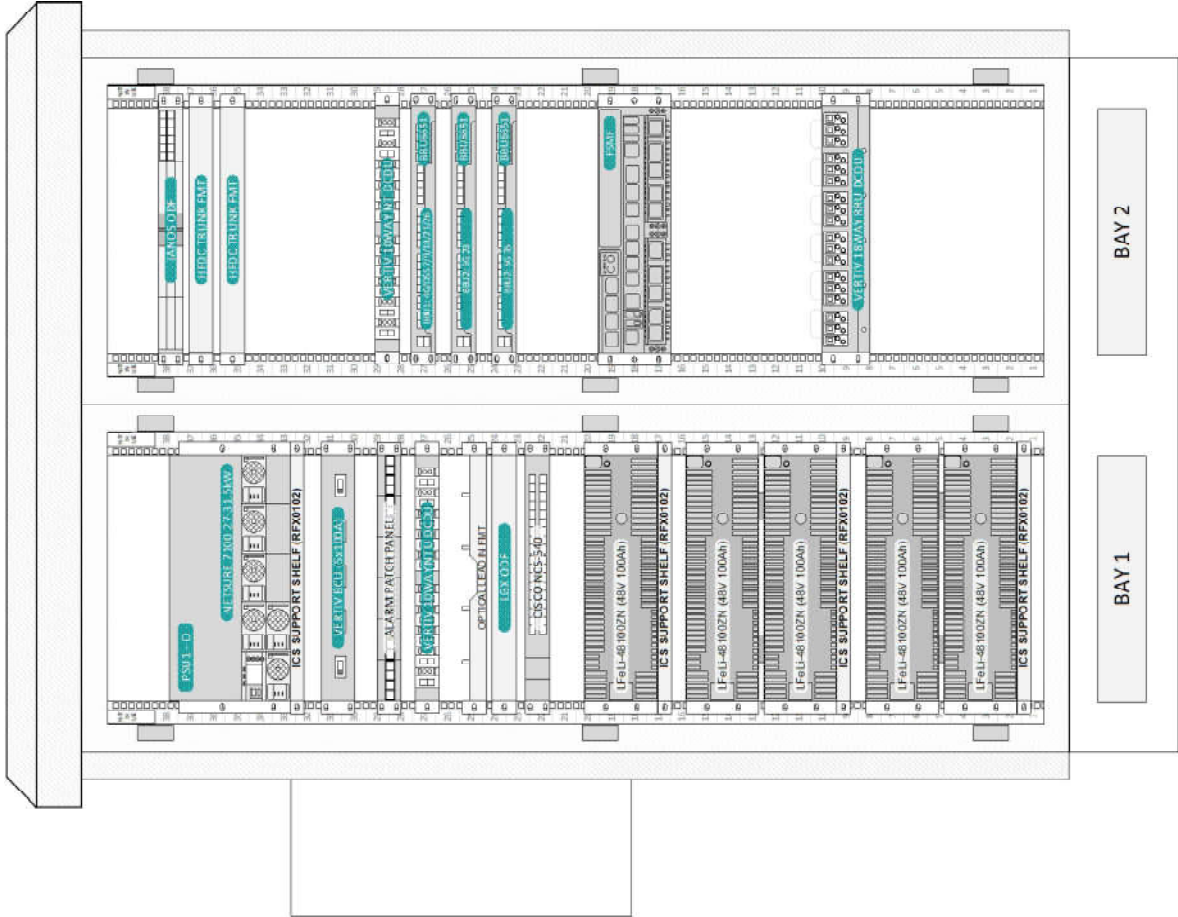
NTS

— 25 x 3mm COPPER TAPE

1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240	1241	1242	1243	1244	1245	1246	1247	1248	1249	1250	1251	1252	1253	1254	1255	1256	1257	1258	1259	1260	1261	1262	1263	1264	1265	1266	1267	1268	1269	1270	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280	1281	1282	1283	1284	1285	1286	1287	1288	1289	1290	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300	1301	1302	1303	1304	1305	1306	1307	1308	1309	1310	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320	1321	1322	1323	1324	1325	1326	1327	1328	1329	1330	1331	1332	1333	1334	1335	1336	1337	1338	1339	1340	1341	1342	1343	1344	1345	1346	1347	1348	1349	1350	1351	1352	1353	1354	1355	1356	1357	1358	1359	1360	1361	1362	1363	1364	1365	1366	1367	1368	1369	1370	1371	1372	1373	1374	1375	1376	1377	1378	1379	1380	1381	1382	1383	1384	1385	1386	1387	1388	1389	1390	1391	1392	1393	1394	1395	1396	1397	1398	1399	1400	1401	1402	1403	1404	1405	1406	1407	1408	1409	1410	1411	1412	1413	1414	1415	1416	1417	1418	1419	1420	1421	1422	1423	1424	1425	1426	1427	1428	1429	1430	1431	1432	1433	1434	1435	1436	1437	1438	1439	1440	1441	1442	1443	1444	1445	1446	1447	1448	1449	1450	1451	1452	1453	1454	1455	1456	1457	1458	1459	1460	1461	1462	1463	1464	1465	1466	1467	1468	1469	1470	1471	1472	1473	1474	1475	1476	1477	1478	1479	1480	1481	1482	1483	1484	1485	1486	1487	1488	1489	1490	1491	1492	1493	1494	1495	1496	1497	1498	1499	1500	1501	1502	1503	1504	1505	1506	1507	1508	1509
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- DC SCOPE:
1. INSTALL 1 x 27kW VERTIV DC POWER SYSTEM.
 2. INSTALL 6 x 3kW RECTIFIERS.
 3. INSTALL 5x 100Ah Li BATTERY STRINGS.



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Certificate No.
CDC103/2025
Accredited Certifier: D. Chacko
Accreditation Number: BDC2304

OPTUS ODU (2-BAY) RACK CONFIGURATION

NOT TO SCALE

				Client				Project				Drawing Title			
								MOBILE NETWORK AUSTRALIA				ODU LAYOUT PLAN			
								SITE No:- S4116							
								COLLARROY BEACH 2							
								1058 PITTSWATER RD, COLLARROY							
												FOR CONSTRUCTION			
												Drawing No.			
												S4116-F1			
												Revision			
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