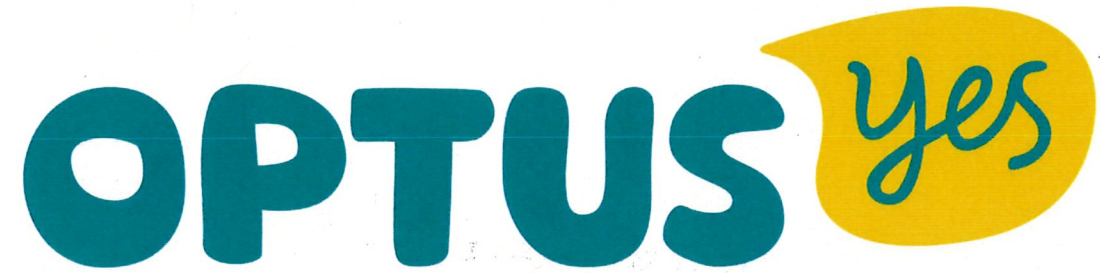


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DOCUMENT DETAILS			DATE OF ISSUE					
			02/12/2016	16/01/2017	28/02/2017	12/10/2017		
SITE No.	SHEET	SHEET NAME	ISSUE No.					
S3233	G1	INDEX	01	02	03	A		
	G2	SITE ACCESS & LOCALITY PLAN	01	02	03	A		
	G3	SITE SPECIFIC NOTES	01	02	03	A		
	G4	WORK HEALTH & SAFETY	01	02	03	A		
	G5	SYMBOLS, NOTES & LEGEND	01	02	03	A		
	S1	SECTORISATION PLAN	01	02	03	A		
	S2	SYSTEM SCHEMATIC DIAGRAM	01	02	03	A		
	L1	SYSTEM LAYOUT DIAGRAM	01	02	03	A		
	X1	KPI EXEMPTION AREAS	01	02	03	A		
	E1	EQUIPMENT LAYOUT	01	02	03	A		
	E2	EQUIPMENT RACK LAYOUT	01	02	03	A		
	E3	AIR CONDITIONING OUTDOOR UNIT DETAIL				A		
	A1	AC POWER DIAGRAM	01	02	03	A		
	P1	SITE PHOTOS	01	02	03	A		
	B1	BILL OF MATERIALS			03	A		

IBC DRAWING PACKAGE
BULLOCKS FLAT TERMINAL
KOSCIUSZKO NATIONAL PARK
NSW 2627
SITE No. S3233

NSW GOVERNMENT
 Planning & Infrastructure
30 OCT 2017
 DEVELOPMENT ASSESSMENT AND
 SYSTEMS PERFORMANCE
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RF Industries Pty Ltd 99 Station Road Seven Hills NSW 2147 Locked Bag 2007 Seven Hills NSW 1730 Ph: (02) 8814 2300 Fax: (02) 9630 0844	CLIENT 	TITLE	INDEX	DESIGNED: PK	DRAWN: PK	APPROVED: BQ		
		PROJECT	BULLOCKS FLAT TERMINAL	CHANGE / ISSUE HISTORY				
				REV	DATE	DETAIL	BY	
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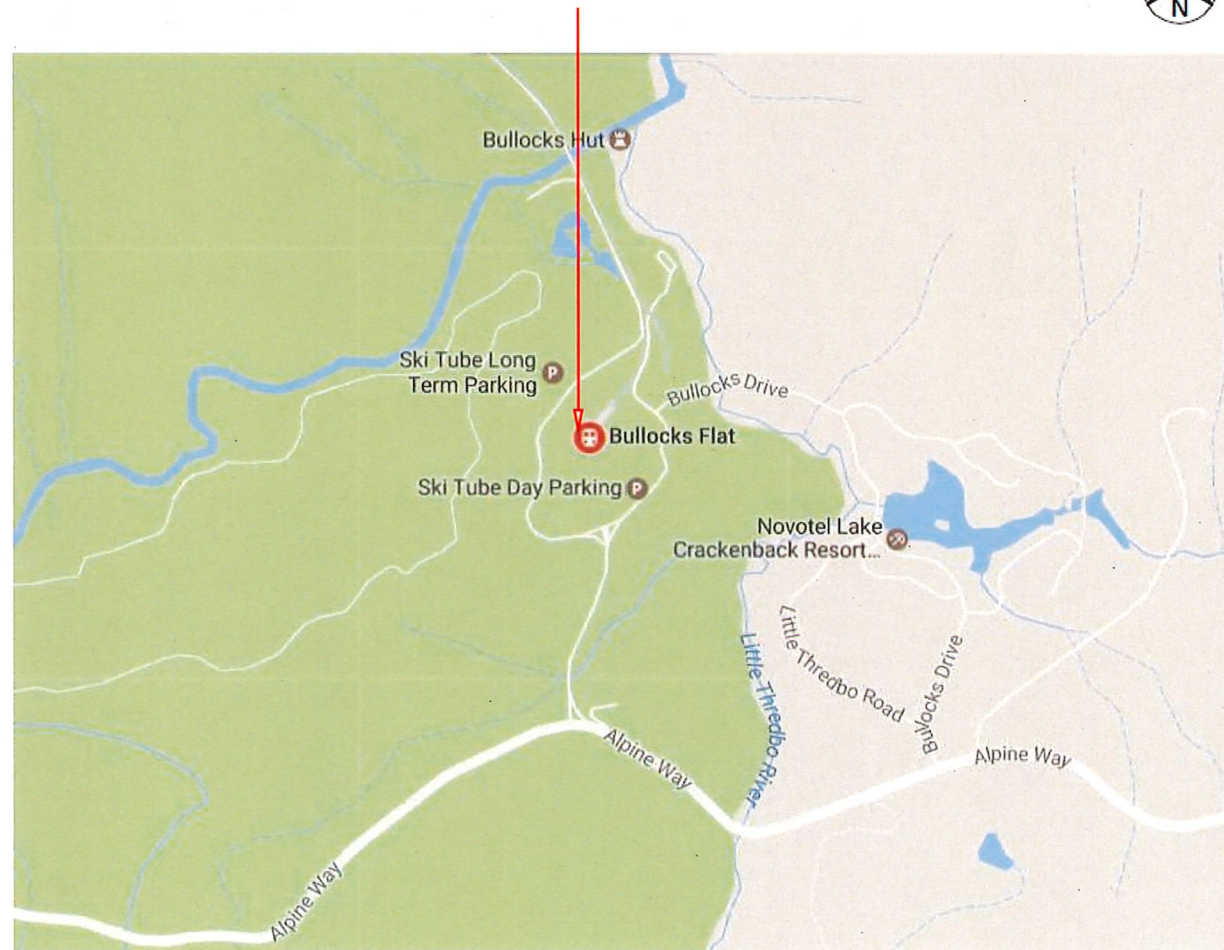
SITE ACCESS DETAILS

SITE NAME: BULLOCKS FLAT TERMINAL IBC.
 SITE ADDRESS: KOSCIUSZKO NATIONAL PARK NSW 2627.
 SITE CONTACT NAME: MICHAEL FANNING.
 SITE CONTACT PHONE No.: (02) 6459 4502. M: 0419 993 830.
 SITE CONTACT EMAIL: michael.fanning@perisher.com.au.
 HOURS OF WORK: INSTALLATION & MAINTENANCE WORKS TO BE COMPLETED OUTSIDE OF THE SKI SEASON.
 SECURITY REQUIREMENTS: N/A.
 SECURITY COMPANY: N/A.
 PARKING: PUBLIC PARKING IS AVAILABLE AT BULLOCKS FLAT TERMINAL.
 OTHER COMMENTS: SITE IS SUBJECT TO SNOW CONDITIONS, CHECK WITH SITE CONTACT PRIOR TO ARRIVAL.

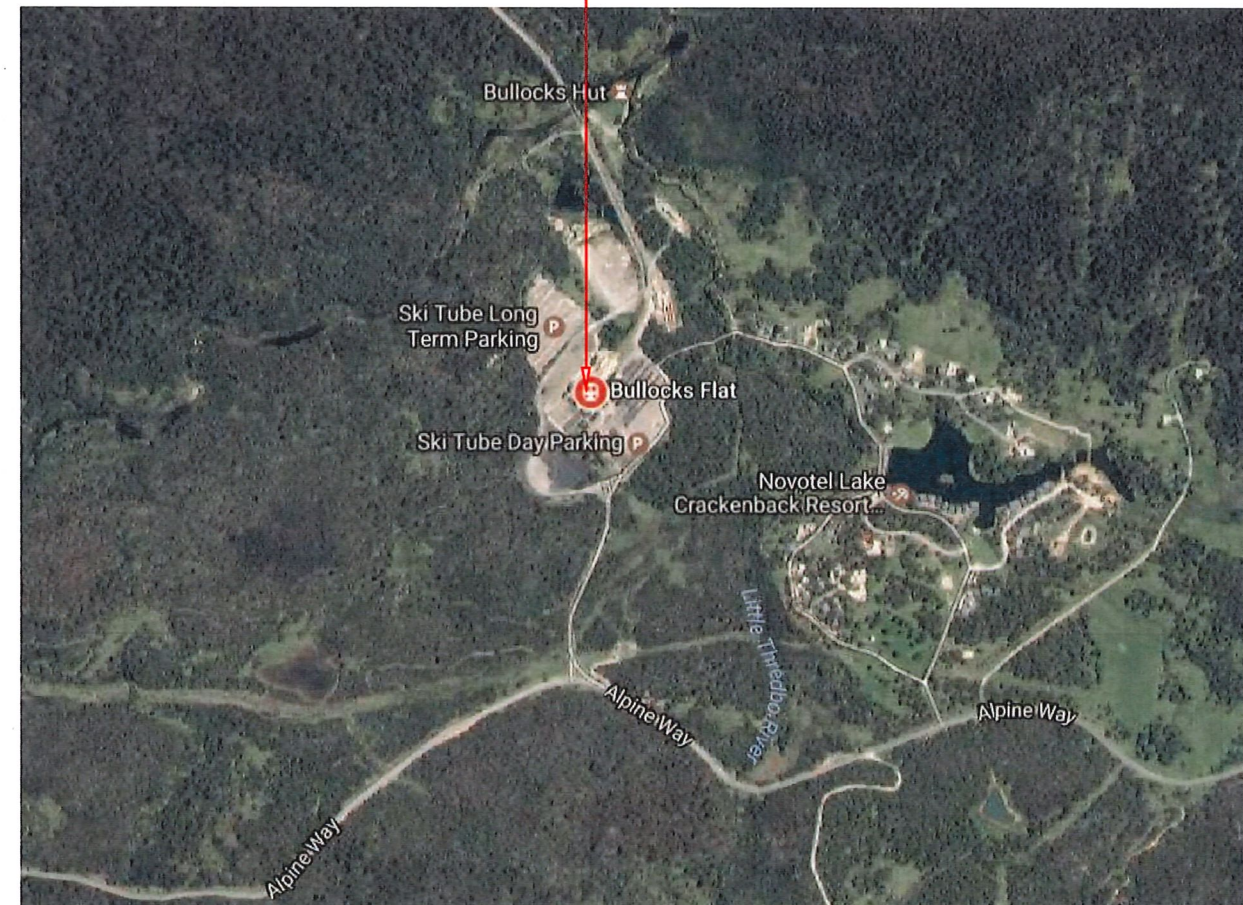
SITE NUMBER:		Sxxxx	
COORDINATE SOURCE:		GOOGLE EARTH	
REFERENCE LOCATION:		CENTRE OF BUILDING	
DATUM:	GDA94 (MGA94)	LATITUDE:	-36.442830°
ZONE:	55	LONGITUDE:	148.442116°
EASTING:	629248		
NORTHING:	5965967		

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BULLOCKS FLAT TERMINAL



BULLOCKS FLAT TERMINAL



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 Seven Hills NSW 1730
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CLIENT



TITLE

SITE ACCESS & LOCALITY PLAN

PROJECT

BULLOCKS FLAT TERMINAL

DESIGNED: PK DRAWN: PK APPROVED: BQ

CHANGE / ISSUE HISTORY

REV	DATE	DETAIL	BY
01	02/12/2016	PRELIMINARY DESIGN	JR
02	16/01/2017	PRELIMINARY DESIGN	JR
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DRAWING No. S3233 G2

SHEET No. 1/1

PROJECT SCOPE

SITE DESIGN BRIEF ISSUE No: 1, DATED 25/01/2017.
 SITE DESIGN VISIT DATE: 01/02/2017.
 CATEGORY: STANDARD.
 SCOPE: TO PROVIDE DEDICATED LTE2600, L1800, LTE700, U2100/L21 AND U900 COVERAGE TO BULLOCKS FLAT TERMINAL IBC RAILWAY STATION AND PROVIDE A BEST EFFORT FOR THE NEIGHBOUR RAILWAY TUNNELS.
 RISKS IDENTIFIED AT SDV: N/A.

WORK AUTHORITY NUMBERS

	L700	U850	G900	U900	L1800	U2100	L2100	L2300	L2600
W/A No.	368488			368487	368490	368486	368486		368489

SERVING/SURROUNDING CELL INFORMATION (BCCH/SC/PCI)

	L700	U850	G900	U900	L1800	U2100	L2100	L2300	L2600
IBC									
MACRO				312, 315, 308, 309, 304, 305, 306		312, 315, 501, 502, 304, 305, 306			

BASIC BUILDING DESCRIPTION

BUILDING FUNCTION: RAILWAY STATION .
 POPULATION COUNT: UNDER INVESTIGATION BY SAE.
 TOTAL No. OF FLOORS: 1.
 APPROX. HEIGHT PER FLOOR: 6 m.
 APPROX. FLOOR DIMENSIONS: 68m x 60m.
 EXTERNAL WALL MATERIAL: GLASS AND ROCK WALLS.
 INTERNAL WALL MATERIAL: GYPROCK, MASONARY BLOCK AND CONCRETE.
 CEILING MATERIAL/ TYPES: CEILING TILES, SET CEILING AND OPEN SLABS.
 OTHER COMMENTS: THE TERMINAL HAVE APPROXIMATELY 6m HIGH PITCHED ROOF .

DEPLOYED EQUIPMENT ON SITE

LEAD OPERATOR: N/A.
 OPERATORS/ TECHNOLOGIES: NIL.
 No. OF SECTORS: N/A.
 EQUIPMENT TYPE: N/A.
 OTHER COMMENTS: N/A.

OPERATOR/TECHNOLOGY DEPLOYMENTS ON SITE

	L700	U850	G900	U900	L1800	U2100	L2100	L2300	L2600
OPTUS									
TELSTRA									
VHA									

NOTE: 'X' INDICATES EXISTING TECHNOLOGY IN UNKNOWN CONFIGURATION.

PROPOSED OPERATOR/TECHNOLOGY DEPLOYMENTS

	L700	U850	G900	U900	L1800	U2100	L2100	L2300	L2600
OPTUS	(1+0+0)			(1+0+0)	(1+0+0)	(2+0+0)	(1+0+0)		(1+0+0)
TELSTRA									
VHA									

NOTE: 'X' INDICATES EXISTING TECHNOLOGY IN UNKNOWN CONFIGURATION.

SOLUTION DETAILS

TYPE OF SOLUTION: PASSIVE IBC.
 CARRIER AGGREGATION: LTE1800 + LTE2600 AND LTE2100 + LTE1800.
 EQUIPMENT TYPE/MODEL: HUAWEI 3900L WITH RFUs..
 TOTAL No. OF RACKS/TYPE: 2x ELTEK MER, 1x HUAWEI RECTIFIER & 1x HUAWEI 3900L.
 RF IMPACT ON EXISTING SYSTEM: N/A.
 COVERAGE ANTENNAS: 4x RFI DAS6927-SOC-N, 2x RFI DAS6927-SDC-N.
 OTHER COMMENTS: N/A.

SECTORING DETAILS



DEPLOYED CONFIG: N/A.
 PROPOSED CONFIG: 1 x SECTOR.
 FUTURE CONFIG: 1 x SECTOR.

EQUIPMENT LOCATION

DEPLOYED EQUIP. LOCATION: N/A.
 PROPOSED EQUIP. LOCATION: SWITCH ROOM.
 REMOTE EQUIP. LOCATION: N/A.
 BACKBONE FEEDER LOCATION: BACKBONE FEESER WILL RUN ABOVE CEILING SPACE.
 IBC ANTENNA LOCATION: ALL ANTENNAS INSTALLED ON SUSPENDED CEILING, CABLE TRAY OR EXPOSED SLAB AND VISIBLE FROM THE FLOOR.
 DONOR ANTENNA LOCATION: N/A.
 L23 GPS ANTENNA LOCATION: N/A.
 OTHER COMMENTS: REFER TO LAYOUT AND EQUIPMENT DRAWINGS FOR LOCATION OF ANTENNAS, PASSIVE DEVICES AND ACTIVE EQUIPMENT.

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 Planning & Infrastructure
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		PROJECT	BULLOCKS FLAT TERMINAL		CHANGE / ISSUE HISTORY				
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				S3233	G3.1	01	02/12/2016	PRELIMINARY DESIGN	JR
						02	16/01/2017	PRELIMINARY DESIGN	JR
						03	28/02/2017	DETAILED DESIGN	PK
				A	12/10/2017	FOR CONSTRUCTION	AC		

AC POWER

DEPLOYED AC POWER: MAIN SWITCH BOARD IS PRESENT IN THE SWITCH ROOM.
 PROPOSED AC POWER: A NEW AUTHORITY METERED 3PHASE FEED CAPABLE OF 63AMP PER PHASE TO THE SWITCH ROOM IS REQUIRED. AC POWER INSTALLATION WORKS ARE TO BE CARRIED OUT BY SKI TUBE ELECTRICIAN. A NEW ICS DBK0041 DISTRIBUTION BOARD/PLC IS ALSO TO BE INSTALLED IN THE SWITCH ROOM.

DC POWER

DEPLOYED DC POWER: NIL.
 PROPOSED DC POWER: A NEW HUAWEI RECTIFIER RACK WITH 4X RECTIFIERS AND 3X BATTERY STRINGS (AG12V100F). DC POWER REQUIREMENTS CALCULATED USING OPTUS POWER CALCULATOR OM38347 VER. 5.2.

TRANSMISSION

DEPLOYED Tx EQUIPMENT: NIL.
 PROPOSED Tx EQUIPMENT: HUAWEI ATN910B MS-NTU IN PROPOSED Tx RACK.

TECHNOLOGY	CONFIGURATION	PIR (Mbps)	CIR (Mbps)	EIR (Mbps)	QUANTITY REQUIRED
2G (E1s)	EDGE	4	4	0	
3G (900)	HSPA+	36	12	24	1
3G (2100)	HSPA+ DUAL CELL	100	24	76	1
LTE700	10MHz, 2x2 MIMO	150	10	140	1
LTE900	5MHz, 2x2 MIMO	45	10	35	
LTE1800(METRO)	15MHz, 2x2 MIMO	250	10	240	
LTE1800(REGIONAL)	15MHz, 2x2 MIMO	300	10	290	1
LTE2100	10MHz, 2x2 MIMO	150	10	140	1
LTE2300	2x20MHz, 4x2 MIMO, 2CC CA	400	10	390	
LTE2600	20MHz, 4x2 MIMO	300	10	290	1

BTS/ NODE B WORKS

ALL BTS MODULES ARE TO BE INSTALLED AS PER RACK LAY OUT DIAGRAM. SEE EQUIPMENT LAYOUT SHEETS FOR RACK LOCATIONS AND NUMBERING.

KPI EXEMPTION AREAS

REFER TO SHEETS X1.1 – X1.3 FOR DETAILS OF PROPOSED KPI EXEMPTION AREAS. ANY COVERAGE PROVIDED TO THESE AREAS MAY NOT MEET THE KPI REQUIREMENTS OUTLINED IN OPTUS IBC DESIGN GUIDELINES OM38047 VER. 3.1.

ENVIRONMENTAL

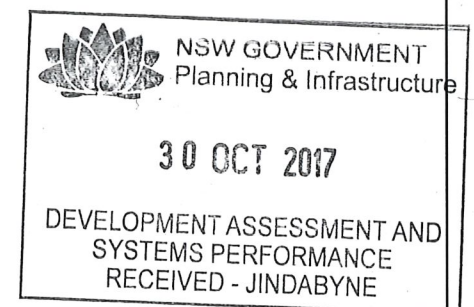
DEPLOYED COOLING: NIL.
 PROPOSED COOLING: 1x MITSUBISHI 6KW SPLIT SYSTEM A/C UNIT (ICS PART No. VAX 0035) MANAGED BY AN ICS DISTRIBUTION BOARD/PLC.
 FIRE DETECTION/ SUPPRESSION: NO EXISTING SMOKE SENSOR. EXISTING BASE-BUILDING FIRE SPRINKLER SYSTEM PRESENT. 1x SMOKE SENSOR INTEGRATED IN TO THE PROPOSED ICS DB/PLC.
 DOOR ALARM: EQUIPMENT ROOM IS TO BE SHARED BETWEEN OPERATORS, NO EXISTING DOOR ALARM PRESENT OR REQUIRED.
 TEMPERATURE: NO EXISTING TEMPERATURE SENSOR. 1x TEMPERATURE SENSOR INTEGRATED IN TO THE ICS DB/PLC.
 OTHER COMMENTS: N/A.

WHS DETAILS



WHS/ INDUCTIONS: ON-SITE SITE SPECIFIC INDUCTION REQUIRED, ARRANGE WITH SITE CONTACT PRIOR TO ARRIVAL.
 CERTIFICATIONS: MINIMUM WORK COVER WHS CARD.
 PPE: APPROPRIATE PPE AS REQUIRED.
 OBSERVED RISKS/HAZARDS: NONE OBSERVED.
 OTHER COMMENTS: THIS WHS INFORMATION DETAILS HAZARDS OBSERVED DURING THE SITE VISIT. ADDITIONAL HAZARDS MAY BE PRESENT THAT WERE NOT OBSERVED. ALL VISITORS TO SITE ARE RESPONSIBLE FOR COMPLETING JSEA'S/SWM'S AND ASSESSING HAZARDS IN THEIR WORK AREAS.

OTHER INSTALLATION NOTES

CORE HOLES: N/A. ALL CABLE INSTALLATION TO FOLLOW EXISTING PENETRATION.
 FIRE STOPPING: INSTALLATION CONTRACTOR TO RE-INSTATE OR INSTALL FIRE STOPPING MATERIAL ONCE CABLES ARE INSTALLED.
 EXPOSED FEEDER AREAS: ALL EXPOSED FEEDERS INSTALLED IN CONDUIT AND SADDLED EVERY 1m.
 OTHER COMMENTS: N/A.



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	PROJECT		BULLOCKS FLAT TERMINAL			CHANGE / ISSUE HISTORY				
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			S3233	G3.2	2/2	A	12/10/2017	FOR CONSTRUCTION	AC	

WHS INFORMATION

ALL STAFF AND CONTRACTORS WORKING ON THIS PROJECT ARE TO COMPLY WITH:

- WORK HEALTH & SAFETY ACT 2011
- WORK HEALTH & SAFETY REGULATIONS 2011
- OCCUPATIONAL HEALTH & SAFETY ACT 2004 (VIC)
- OCCUPATIONAL HEALTH & SAFETY REGULATIONS 2007 (VIC)
- OCCUPATIONAL HEALTH & SAFETY ACT 1984 (WA)
- OCCUPATIONAL SAFETY & HEALTH REGULATIONS 1996 (WA)
- RELEVANT CODES OF PRACTICE

NOTE THAT THIS INFORMATION DETAILS POSSIBLE RISKS / HAZARDS OBSERVED BY THE DESIGN ENGINEER DURING THE SITE DESIGN VISIT. ADDITIONAL RISKS/HAZARDS MAY BE PRESENT ON SITE THAT WERE NOT OBSERVED AT THE TIME OF THE VISIT. AS A MINIMUM THE INSTALLATION CONTRACTOR IS TO IMPLEMENT APPROPRIATE STEPS AND PROCEDURES TO MITIGATE THESE RISKS AND HAZARDS. THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR COMPLETING JSEA'S / SWM'S AND ASSESSING ALL RISKS / HAZARDS PRIOR TO COMMENCING WORKS.

WORK HEALTH AND SAFETY - SITE DETAILS		
	ACCESS & EGRESS	MOVING PLANT / TRAFFIC
	CORING / DRILLING	PLANT & EQUIPMENT OPERATION (EWP)
	DEMOLITION / DISMANTLING	STRUCTURAL ALTERATIONS
X	POWER TOOLS	SERVICES (UNDERGROUND / OVERHEAD)
	FUMES / GAS	UV (SUNLIGHT)
	FLYING / FALLING OBJECT / DEBRIS	EME EXPOSURE
	HAZARDOUS MATERIALS	CONFINED SPACES
	HOT WORKS (CUTTING / WELDING / GRINDING)	DANGEROUS GOODS
	LIGHTING	FIRE / EXPLOSION
	MATERIALS HANDLING (CRANE / FORKLIFT ETC)	WORKING AT HEIGHTS
	NOISE	HOT / COLD ENVIRONMENT
X	PUBLIC	LASERS
X	MANUAL HANDLING	
ENVIRONMENTAL - SITE DETAILS		
	AIR QUALITY (DUST ETC)	
	HERITAGE & ARCHAEOLOGY	
X	NOISE OR VIBRATION	
	WASTE DISPOSAL	
	TRAFFIC & PARKING	
	DANGEROUS GOODS (USE / SPILLS / STORAGE)	

PPE MATRIX



 FOOT PROTECTION MUST BE WORN	✓	 PROTECTIVE CLOTHING MUST BE WORN	✓	 DUST MASK MUST BE WORN	✓
 SAFETY VEST MUST BE WORN	✓	 SAFETY GOGGLES MUST BE WORN	✓	 FACE SHIELD MUST BE WORN	✓
 HARD HAT AREA	✓	 WEARING AND EYE PROTECTION MUST BE WORN	✓	 BREATHING APPARATUS MUST BE WORN	✓
 FULL BODY EQUIPMENT MUST BE WORN	✓	 HAND PROTECTION MUST BE WORN	✓	 HALF FACE MASK RESPIRATOR MUST BE WORN	✓

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Planning & Infrastructure

30 OCT 2017
























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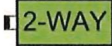
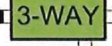


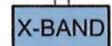
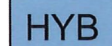

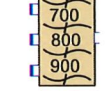
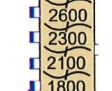
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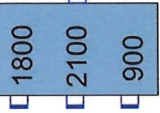
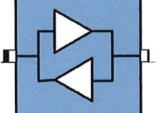
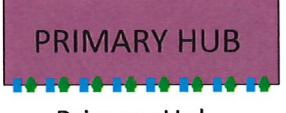
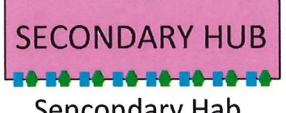
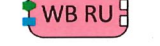
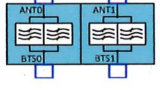
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SCHEMATIC BLOCKS




















-  3/8" Straight Jumper Cable
-  3/8" Right Angle Jumper Cable
-  1/4" Coaxial Cable
-  1/2" Superflex Coaxial Cable
-  1/2" Coaxial Cable
-  7/8" Coaxial Cable
-  1 1/4" Coaxial Cable
-  CAT-5 Coaxial Cable
-  Fibre Optic Cable
-  AC Power Cable
-  DC Power Cable
-  Earth Cable
-  N-Female Connector
-  N-Male Connector
-  DIN - Female Connector
-  DIN - Male Connector
-  SMA-Female Connector
-  SMA-Male Connector
-  SC-APC Connector
-  SC-PC Connector
-  Resistive Load
-  Cable Load
-  DC Block


-  Omni Antenna
-  Directional Omni Antenna
-  Panel Antenna
-  MIMO Omni Antenna
-  MIMO Panel Antenna
-  Yagi Antenna
-  Directional Donor Antenna
-  Grid Antenna
-  Log Periodic Antenna

-  2-WAY Splitter
-  3-WAY Splitter
-  4-WAY Splitter
-  XXdB Coupler
-  X-BAND Coupler
-  HYB Hybrid Combiner
-  Low/High Band Combiner
-  Low Band Combiner
-  High Band Combiner

-  MNC Multi Network Combiner
-  Triplexer
-  Repeater
-  PRIMARY HUB Primary Hub
-  SECONDARY HUB Secondary Hub
-  WB RU Remote Unit
-  Band Pass Filter



LAYOUT BLOCKS

-  Omni Antenna/
MIMO Omni Antenna
-  Directional
Omni Antenna
-  Panel Antenna/
MIMO Panel Antenna
-  Yagi Antenna
-  Directional Donor Antenna
-  Grid Antenna
-  Log Periodic Antenna
-  Equipment Room
-  Riser
-  Splitter
-  Coupler
-  Crossband Combiner
-  Hybrid Coupler
-  Multi Network Combiner
-  Triplexer
-  Repeater
-  Remote Unit
-  Primary Hub
-  Secondary Hub


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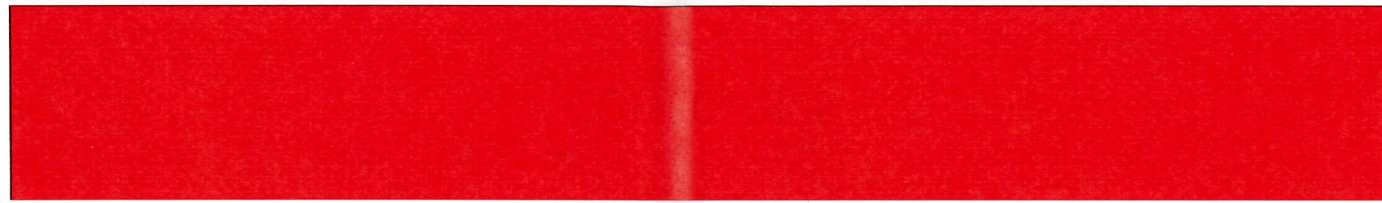
FOR CONSTRUCTION


	RF Industries Pty Ltd 99 Station Road Seven Hills NSW 2147 Locked Bag 2007 Seven Hills NSW 1730 Ph: (02) 8814 2300 Fax: (02) 9630 0844	CLIENT 	TITLE SYMBOLS, NOTES & LEGEND PROJECT BULLOCKS FLAT TERMINAL	DESIGNED: PK	DRAWN: PK	APPROVED: BQ
	CHANGE / ISSUE HISTORY					
	REV	DATE	DETAIL	BY		
	01	02/12/2016	PRELIMINARY DESIGN	JR		
02	16/01/2017	PRELIMINARY DESIGN	JR			
03	28/02/2017	DETAILED DESIGN	PK			
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KEY

 SECTOR 1






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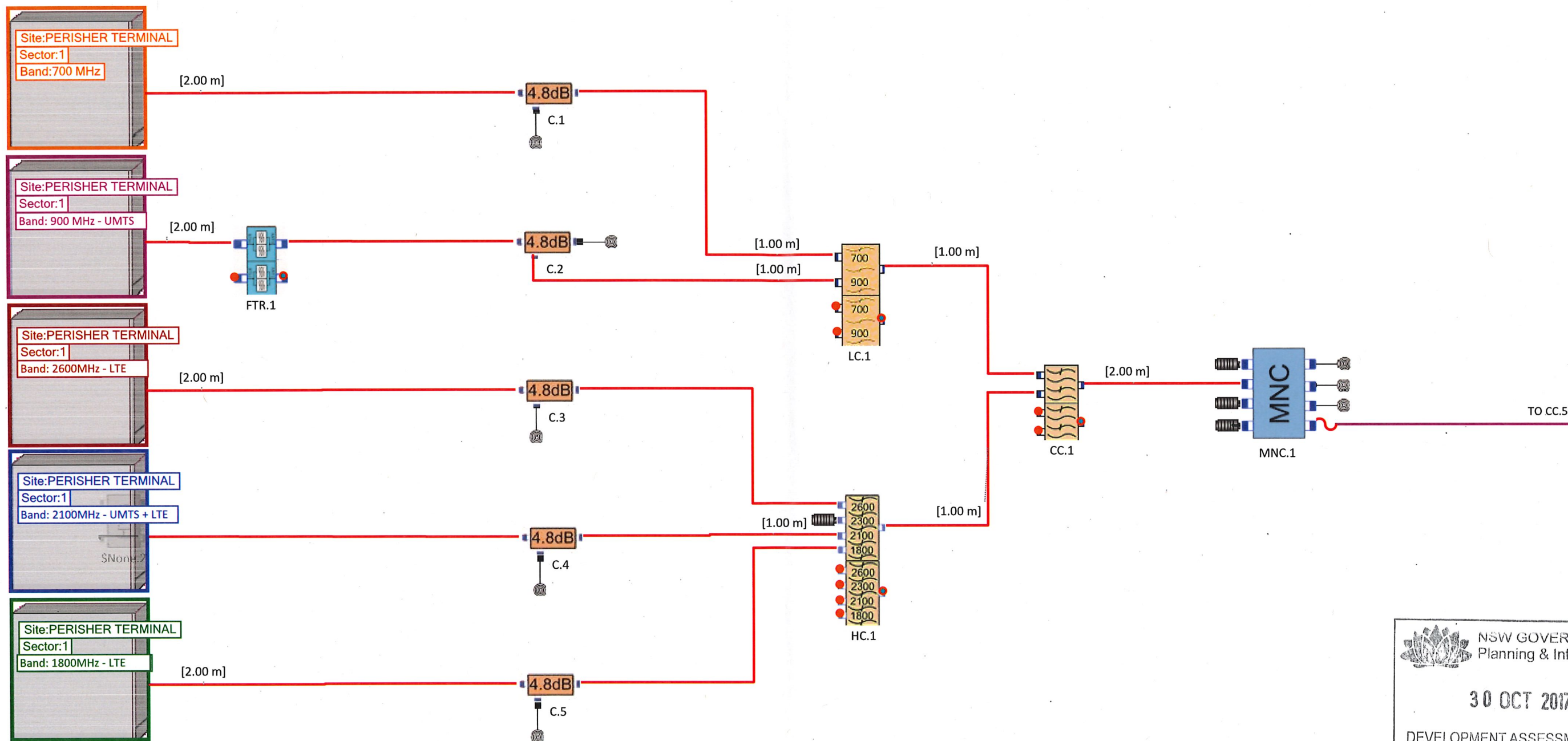
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	PROJECT		BULLOCKS FLAT TERMINAL		CHANGE / ISSUE HISTORY				
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SWITCH ROOM



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CLIENT



TITLE

SYSTEM SCHEMATIC DIAGRAM

PROJECT

BULLOCKS FLAT TERMINAL

DESIGNED: PK

DRAWN: PK

APPROVED: BQ

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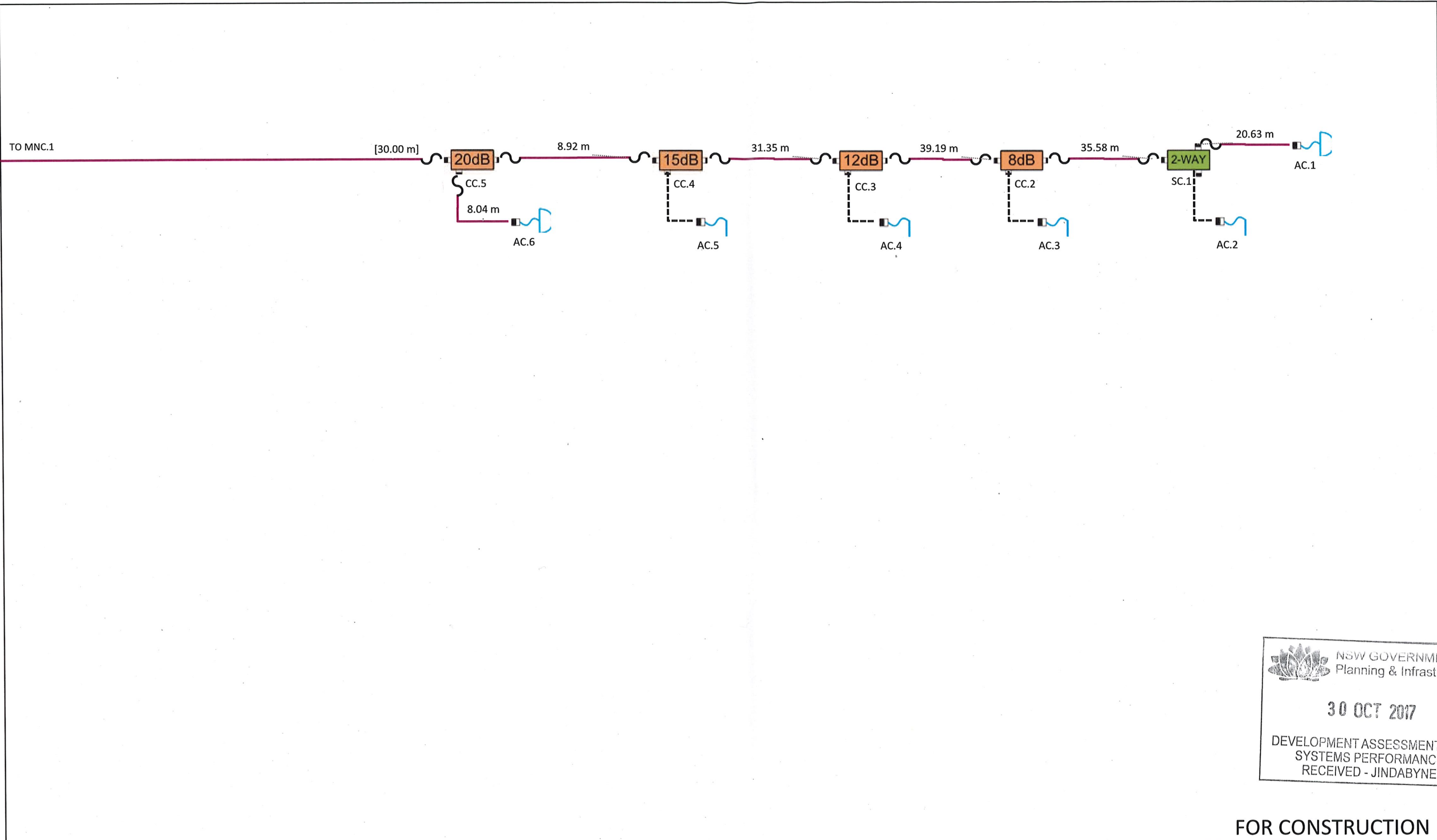
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28/02/2017
12/10/2017

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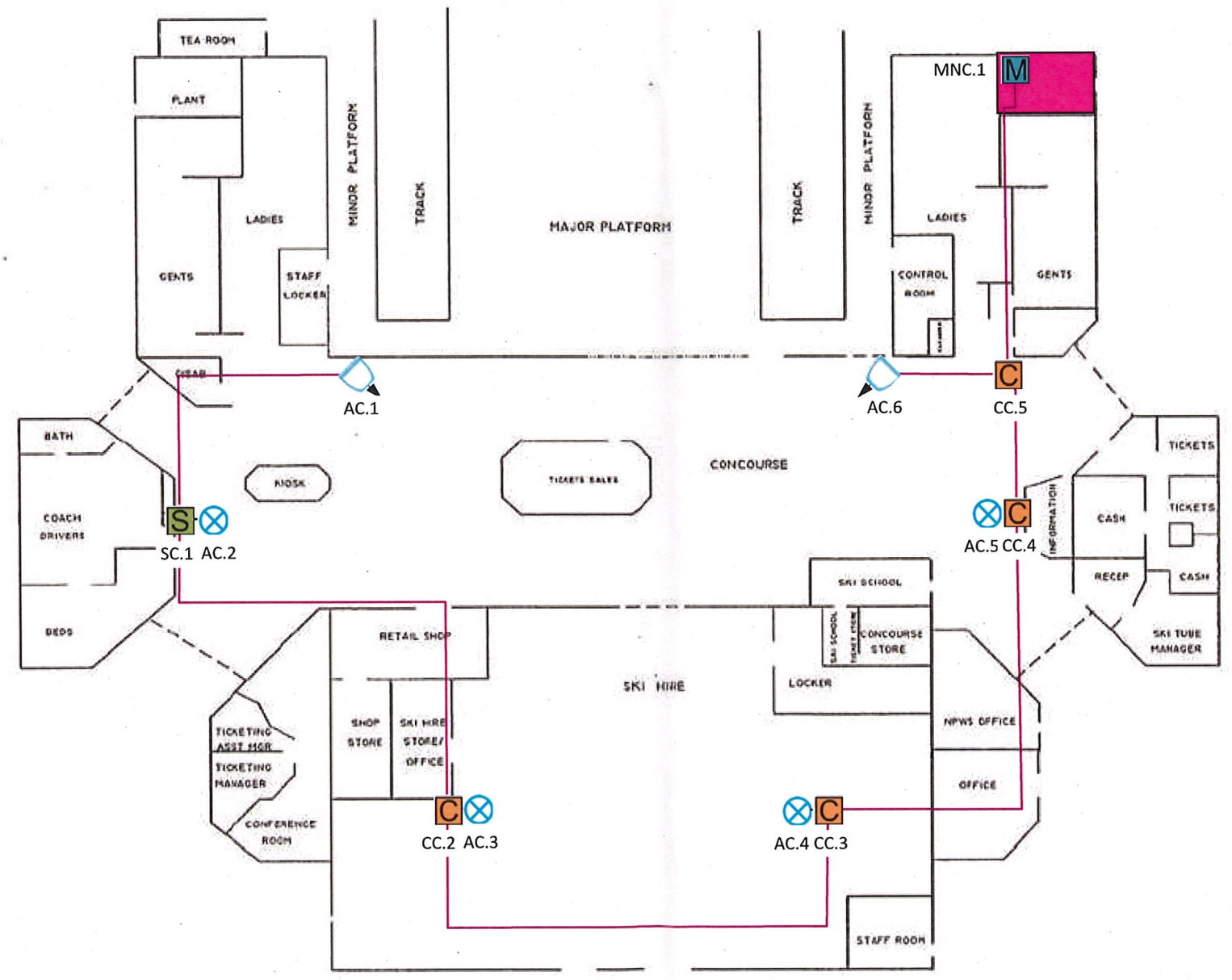
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		PROJECT	BULLOCKS FLAT TERMINAL		CHANGE / ISSUE HISTORY			
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BULLOCKS FLAT TERMINAL





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Site Scale:
10.00 m

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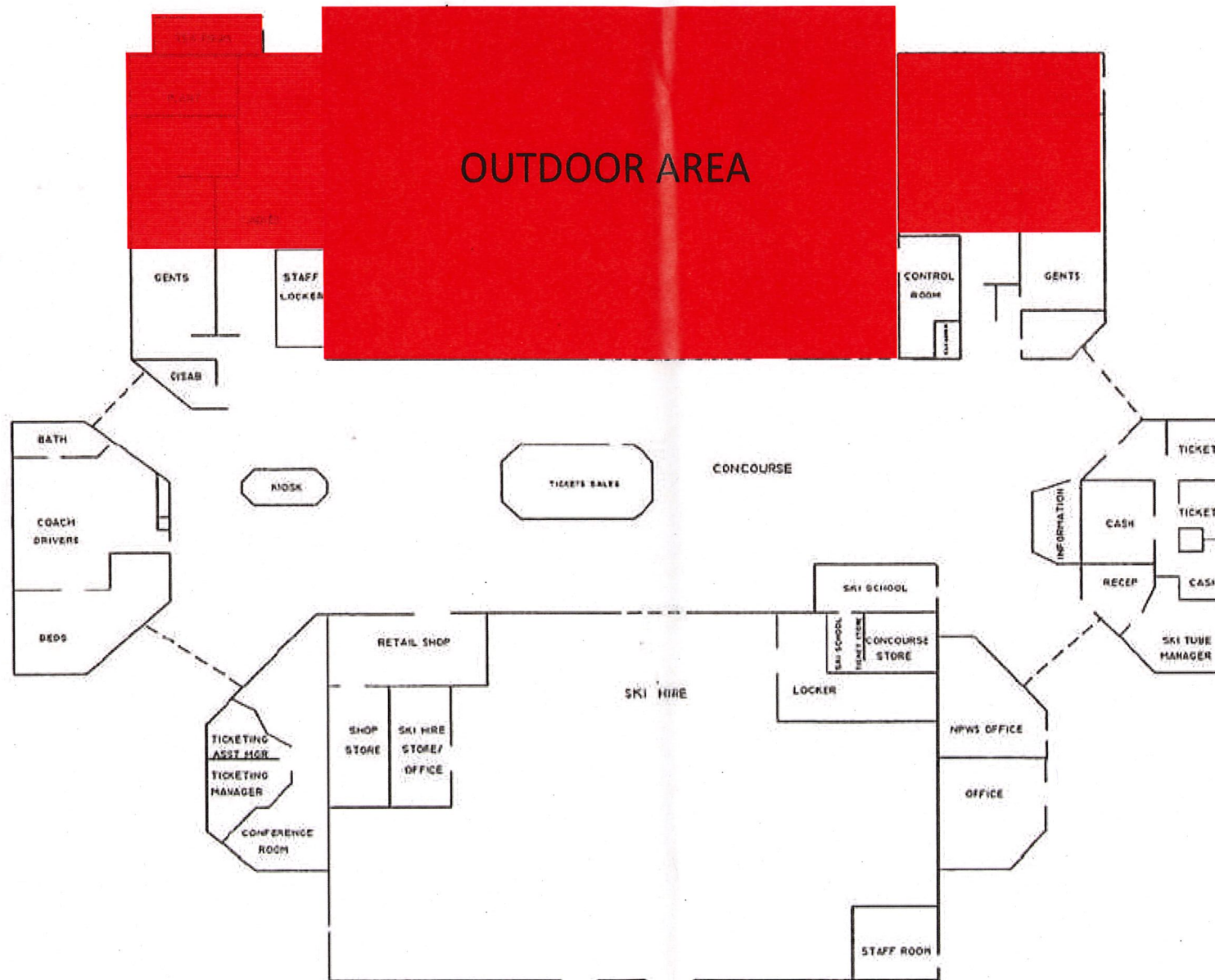
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		PROJECT	BULLOCKS FLAT TERMINAL		CHANGE / ISSUE HISTORY			
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KEY

 EXCLUSION ZONE

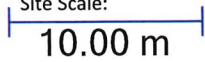


BULLOCKS FLAT TERMINAL





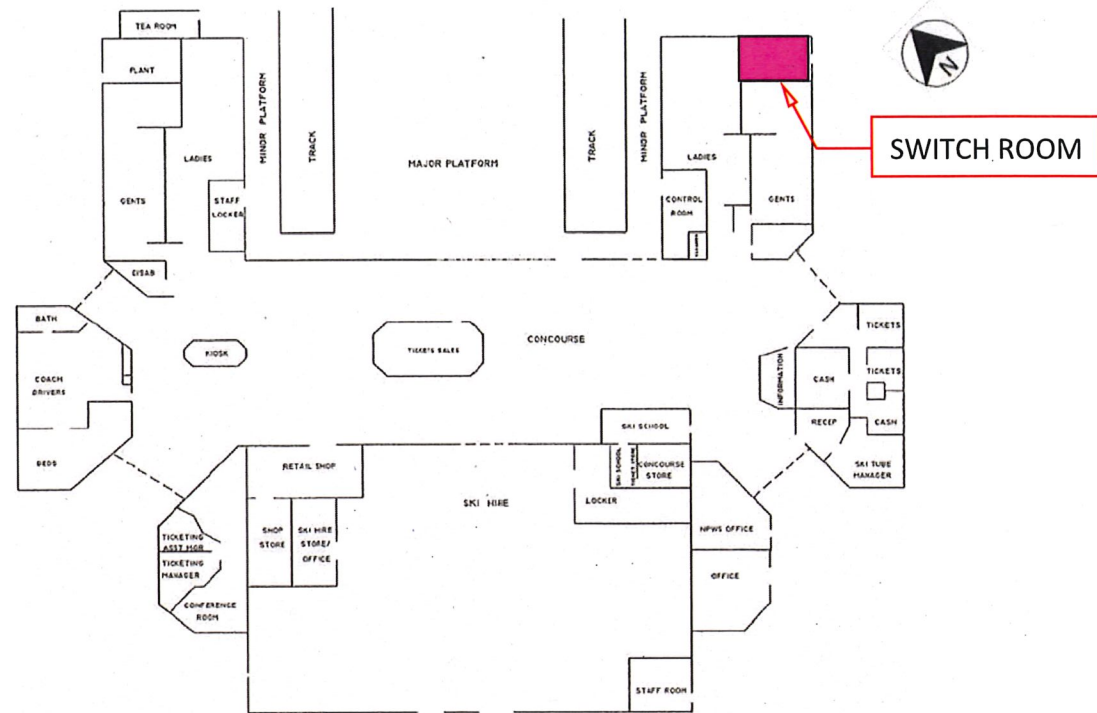
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Site Scale:
 10.00 m

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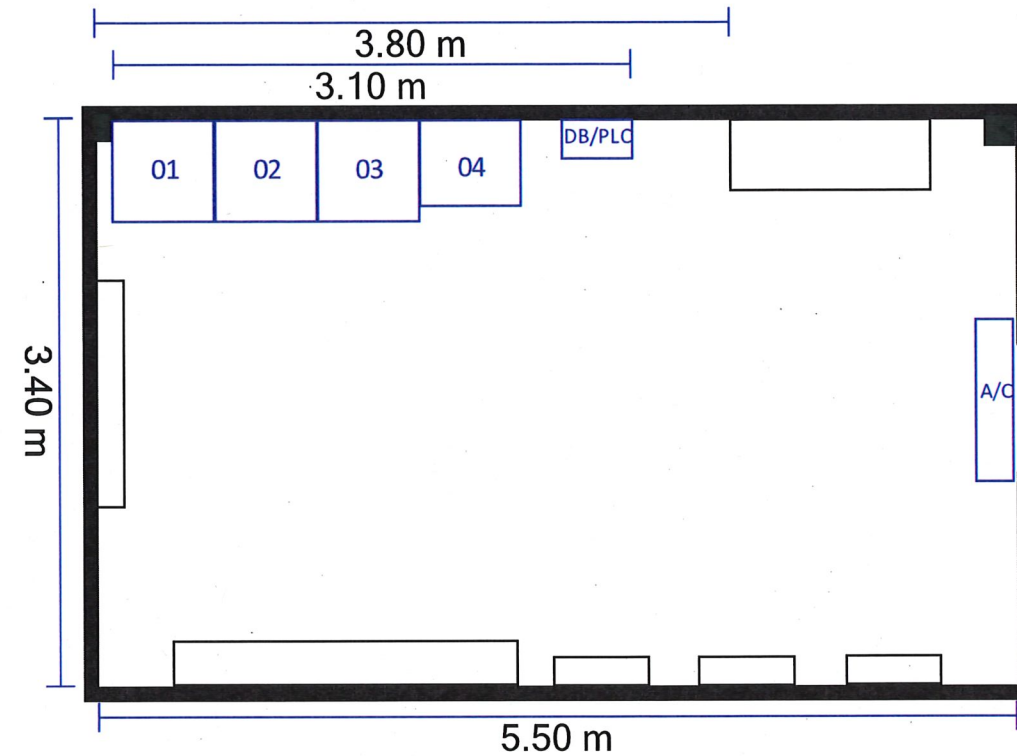
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PROPOSED EQUIPMENT ROOM LOCATION



PROPOSED OPTUS EQUIPMENT INSTALLATION



PROPOSED OPTUS EQUIPMENT IN SWITCH ROOM

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TITLE

EQUIPMENT LAYOUT

PROJECT

BULLOCKS FLAT TERMINAL

DESIGNED: PK

DRAWN: PK

APPROVED: BQ

CHANGE / ISSUE HISTORY

REV	DATE	DETAIL	BY
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SHEET No.
1/1

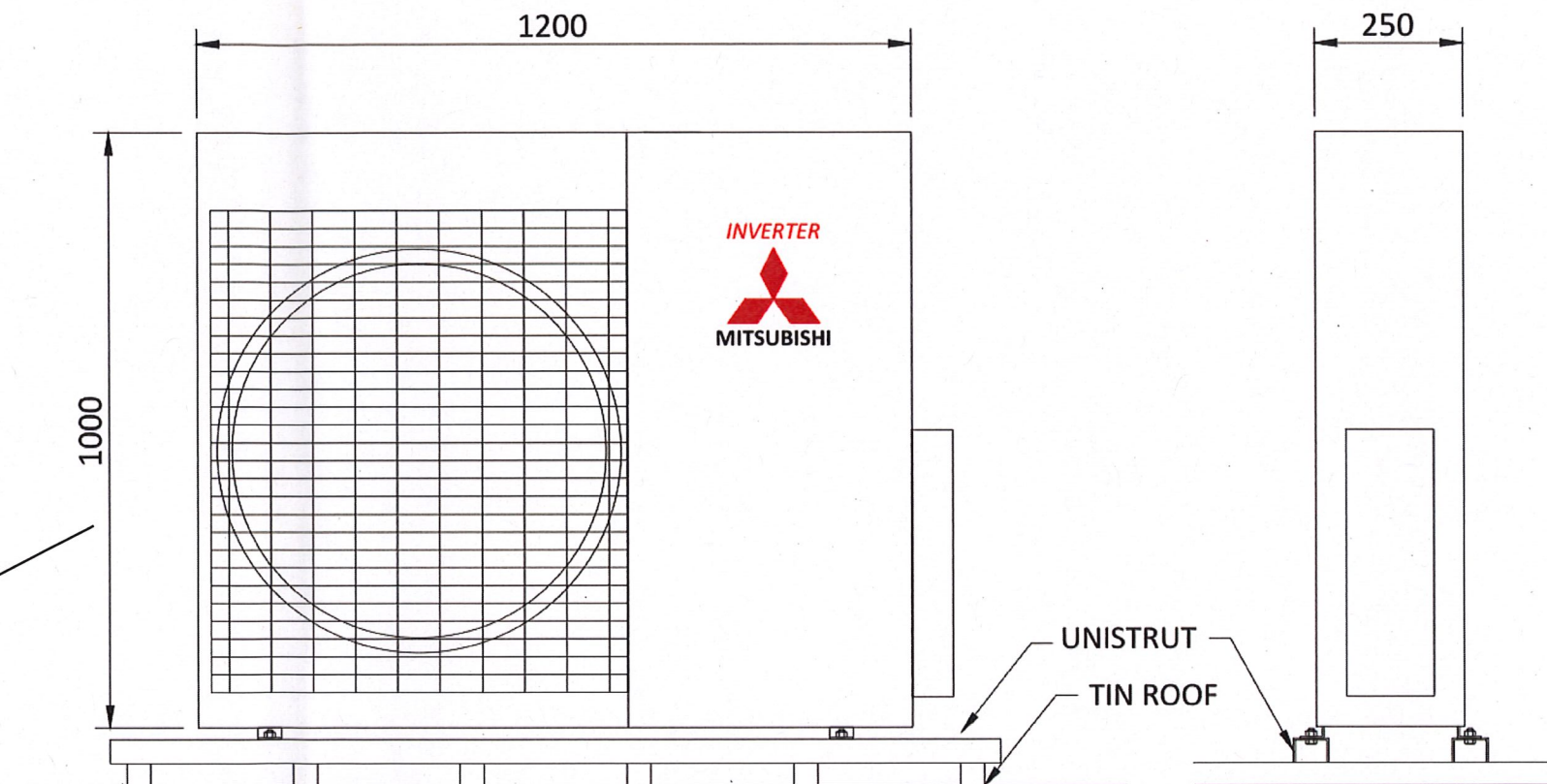
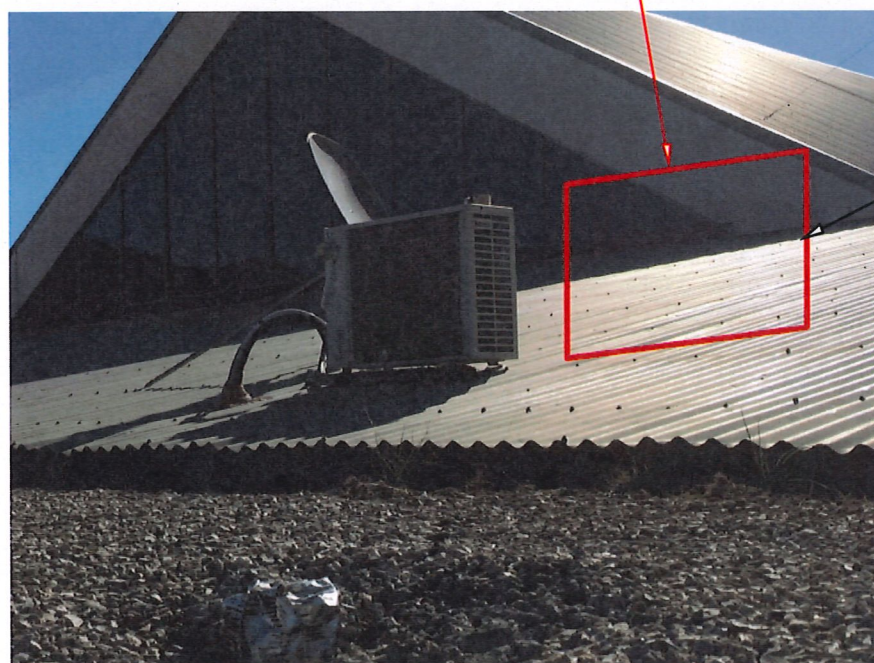


PROPOSED OPTUS EQUIPMENT RACK LAYOUT IN EQUIPMENT ROOM

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		S3233	E2	1/1	A		



FRONT VIEW

SIDE VIEW

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TITLE

AIR CONDITIONING OUTDOOR UNIT DETAIL

PROJECT

BULLOCKS FLAT TERMINAL

DESIGNED: PK

DRAWN: PK

APPROVED: BQ

CHANGE / ISSUE HISTORY

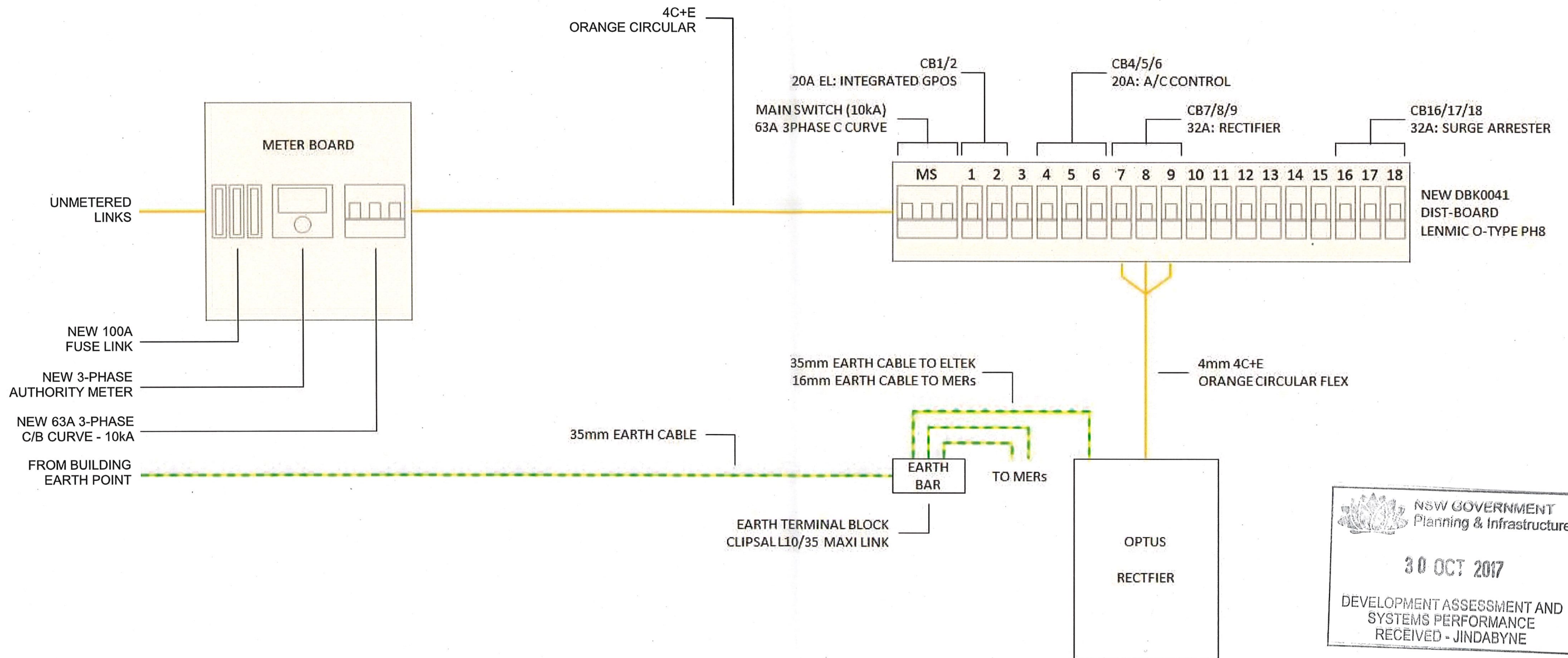
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SHEET No. 1/1



SWITCH ROOM



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NOTE: INSTALLATION CONTRACTOR TO VERIFY WITH A CERTIFIED ELECTRICAL ENGINEER THAT AC POWER REQUIREMENTS MEET ALL RELEVANT REGULATIONS.

FOR CONSTRUCTION

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			<p>CHANGE / ISSUE HISTORY</p> <table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DETAIL</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>01</td> <td>02/12/2016</td> <td>PRELIMINARY DESIGN</td> <td>JR</td> </tr> <tr> <td>02</td> <td>16/01/2017</td> <td>PRELIMINARY DESIGN</td> <td>JR</td> </tr> <tr> <td>03</td> <td>28/02/2017</td> <td>DETAILED DESIGN</td> <td>PK</td> </tr> <tr> <td></td> <td>S3233</td> <td>A1</td> <td>1/1</td> <td>A</td> <td>12/10/2017</td> <td>FOR CONSTRUCTION</td> <td>AC</td> </tr> </tbody> </table>	REV	DATE	DETAIL	BY	01	02/12/2016	PRELIMINARY DESIGN	JR	02	16/01/2017	PRELIMINARY DESIGN	JR	03	28/02/2017	DETAILED DESIGN	PK		S3233	A1	1/1	A	12/10/2017	FOR CONSTRUCTION	AC
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BULLOCKS FLAT TERMINAL PLATFORMS



MAIN FOYER AREA



SKI HIRE AREA



ENTRY TO SWITCH ROOM





PROPOSED EQUIPMENT AREA IN THE SWITCH ROOM



MAIN SWITCH BOARD IN THE SWITCH ROOM

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		PROJECT	CHANGE / ISSUE HISTORY						
		<p align="center">SITE PHOTOS</p> <p align="center">BULLOCKS FLAT TERMINAL</p>			REV	DATE	DETAIL	BY	
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Type	Manufacturer	Model	Description	Qty
OPTUS FREE ISSUE MATERIALS				
	Optus/Eltek	22868	PANEL,ALARM&PWR DISTR;48VDC;2RU;10 X 6A;	2
	Optus/Eltek	29802	SHELF;440MM D;FOR 19IN MER37 RACK;85KG	2
	Optus/Eltek	30782	RACK;19IN;MER 46RU;C/W FRONT&REAR RAIL	2
	Optus/Huawei	47105	POWER SYSTEM;18KW;W/O RECTIFIERS	1
	Optus/Huawei	45712	BATTERIES;12V;100AH;GEL;AG12V100F STRING	3
	Optus/Huawei	45717	RECTIFIER MODULE;3000W;1RU;R4850G2	4
	Optus/Huawei	30418	EMUA	1
	Optus/Huawei	34795	Single U2100 WRFU Expansion	1
	Optus/Huawei	38141	BTS 3900L Cabinet Base Plate (Plinth)	1
	Optus/Huawei	38381	Single 1800MHz MRFud	1
	Optus/Huawei	39951	UPEU Power Module	2
	Optus/Huawei	40295	BBU Expansion Kit	2
	Optus/Huawei	43031	BTS3900L Cabinet (Ver.D, DC -48V)	1
	Optus/Huawei	43032	Installation Materials for 3900L	1
	Optus/Huawei	44372	RFU;LRFUE;700MHZ;LTE;2T2R;2X80W	1
	Optus/Huawei	44648	UPEU Power Cable	2
	Optus/Huawei	44855	UBBPd6 Baseband Processing Card	6
	Optus/Huawei	44856	2100 WRFUe (3G or LTE), 2x80W	1
	Optus/Huawei	45362	UMPTb2	2
	Optus/Huawei	45663	Single 900MHz MRFUd, 80W	1
	Optus/Huawei	45664	BASE BAND UNIT,BBU3910;-48V; NEW VERSION	2
	Optus/Huawei	46055	Single 2600MHz LRFUE 2x40W	1
	Optus/Tongyu	44876	COMBINER;COM1;700-960MHZ/1800-2600MHZ; TYT-C022D001	1
	Optus/Tongyu	44878	COMBINER;COM3;HIGH BAND;18/21/23/2600MHZ; TYT-C124D003	1
	Optus/Tongyu	44883	COMBINER;COM2A;700/900MHZ; TYT-C002D031	1

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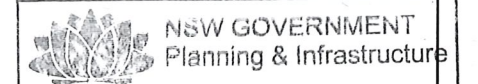
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		BILL OF MATERIALS - 1			CHANGE / ISSUE HISTORY		
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			03	28/02/2017	DETAILED DESIGN		
					PK		
					AC		

Type	Manufacturer	Model	Description	Qty
RFI SUPPLY MATERIALS				
Antenna	RFI	DAS6927-SDP-N	DAS Directional Panel Antenna, 698-960/1710-2700 MHz	2
Antenna	RFI	DAS6927-SOC-N	DAS Omni-Directional Ceiling Antenna, 698-960/1710-2700 MHz	4
Attenuator	RFI	SP0000-6005-DIN	TERMINATION 50 OHM 5W DC-2500MHZ 7/16 MALE	4
Attenuator	RFI	SP6927-1100-DIN	100 Watt Cable Termination - DIN Male Connector	8
Splitter	RFI	SP3827-5102-11	Multi-Band, 2-way Splitter - 380-2700 MHz - N Connectors	1
Splitter	RFI	SP6927-2305-DIN	Directional Coupler 690-2700MHz, 3-Port 4.8dB Coupling Loss DIN (F) Connectors	5
Splitter	RFI	SP6927-2308-11	Directional Coupler 690-2700MHz, 3-Port 8dB Coupling Loss N (F) Connectors	1
Splitter	RFI	SP6927-2312-11	Directional Coupler 690-2700MHz, 3-Port 12dB Coupling Loss N (F) Connectors	1
Splitter	RFI	SP6927-2315-11	Directional Coupler 690-2700MHz, 3-Port 15dB Coupling Loss N (F) Connectors	1
Splitter	RFI	SP6927-2320-11	Directional Coupler 690-2700MHz, 3-Port 20dB Coupling Loss N (F) Connectors	1
Splitter	RFI/CommScope	E15R02P24	FILTER;BAND PASS;DUAL;900MHz	1
Splitter	RFI/Rojone	ROJ-074NMT-4-4-716IM	Network Combiner - 700-2700 MHz	1
Cable	RFI/Rosenberger	LC02-S005-500	Jumper 0.5m NM to NMRA Superflex 3/8"	4
Cable	RFI/Rosenberger	LC02-S006-500	Jumper 0.5m NM to NM Superflex 3/8"	11
Cable	RFI/Rosenberger	LC08-110-1000	Jumper 1.0m DM to NM Superflex 1/2"	1
Cable	RFI/Rosenberger	LC08-112-2000	Jumper 2.0m DM to DMRA Superflex 1/2"	4
Cable	RFI/Rosenberger	LC08-113-1000	Jumper 1.0m DM to DM Superflex 1/2"	9
Cable	RFI/Rosenberger	LC08-113-2000	Jumper 2.0m DM to DM Superflex 1/2"	1
Cable	RFI/Rosenberger	SL012RL-PE	Flex Cable 1/2" Foam Corrugated PE Jacket	208.45 m
Connector	RFI/Rosenberger	53K1C7-C03N1	N Jack Straight 1/2" Slink Connector	12
Connector	RFI/Rosenberger	53S1C7-C03N1	N Plug Straight 1/2" Slink Connector	2
Miscellaneous	RFI	RADHAZ-LABEL-40MM	RADIATION HAZARD LABEL WARNING TYPE 40MM	6
Miscellaneous	RFI/ICS	VAX0035	AIR CON SYSTEM SUPPLY:MHI SPLIT SYSTEM SRK63	1
Power Supply	RFI/ICS	DBK0041	DISTRIBUTION BOARD;LENMIC O-TYPE;	1



NOTE: 20% SAFETY MARGIN HAS BEEN ADDED TO THE CABLE LENGTH IN THE BOM ABOVE FOR INSTALLATION PURPOSE.



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