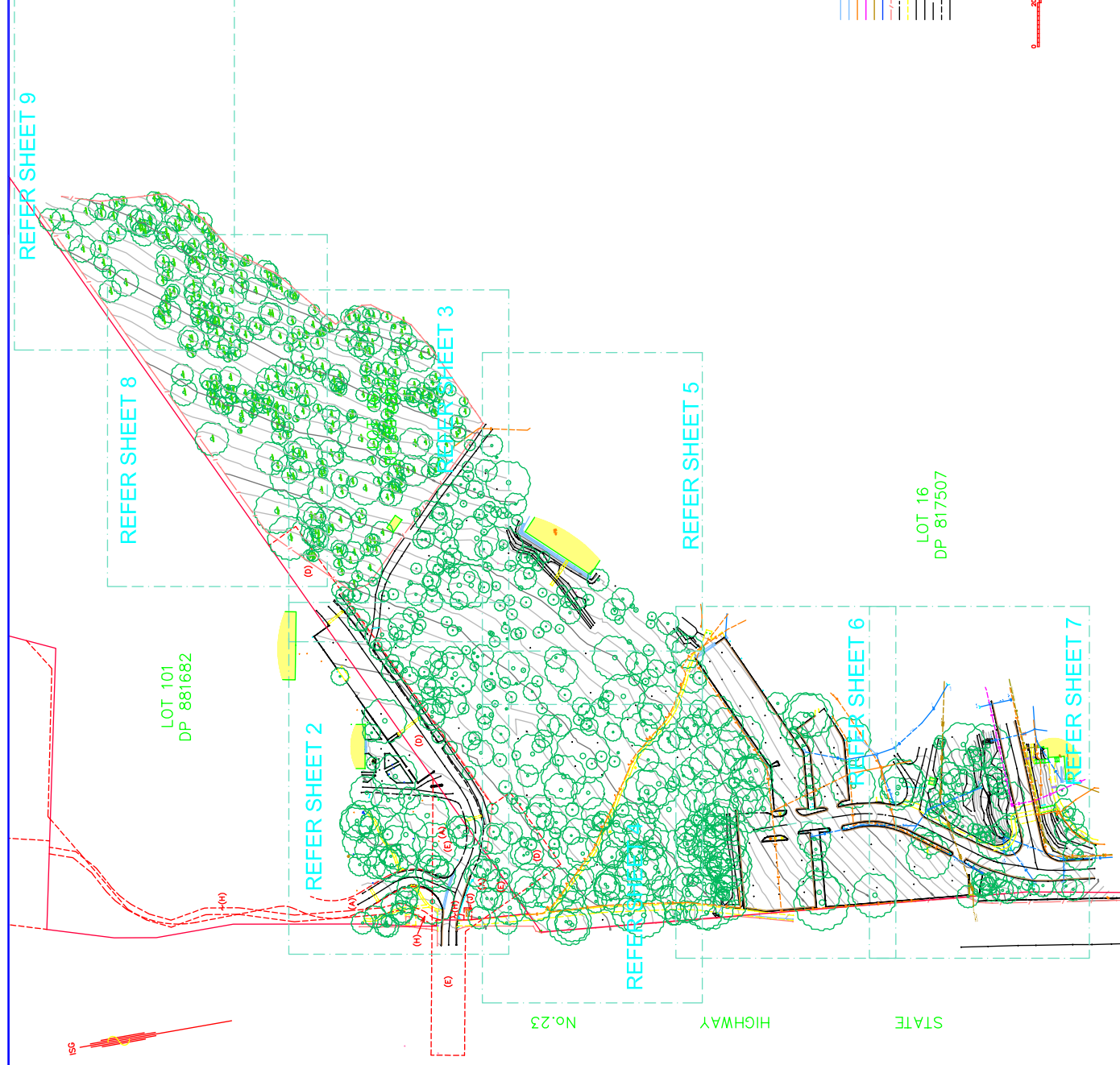




1. ONLY VISIBLE SERVICES HAVE BEEN LOCATED BY SURVEY. THE POSITION OF THE UNIDENTIFIED SERVICES IS APPROXIMATE ONLY AND HAS BEEN SPOKE FROM THE UNIDENTIFIED SERVICES DATA DATED NOVEMBER 2008.
2. NOT ALL SERVICE INFORMATION MAY BE SHOWN DUE TO UNAVAILABILITY OF SERVICE INFORMATION. THE SERVICE INFORMATION SHOWN WAS OBTAINED FROM THE BHP BILLITON NICKELSTEEL TECHNOLOGY CENTER - LOT 101 DP 891862.
3. THE BHP BILLITON NICKELSTEEL TECHNOLOGY CENTER HAS BEEN LOCATED BY SURVEY AND PERIMETER DIMENSIONS SHOWN WITHIN THE AUTOCAD LAYOUT PREPARED WITH UNITE-HAVE BEEN OBTAINED FROM THE BHP BILLITON NICKELSTEEL TECHNOLOGY CENTER. ALL DIMENSIONS ARE APPROXIMATE. THE INFORMATION SHOWN DURING THE SURVEY SHALL BE TAKEN REGARDING THESE SERVICES.
4. INDEPENDENT INQUIRIES FOR UP TO DATE SERVICE LOCATIONS THROUGH THE RELEVANT AUTHORITIES MUST BE UNDERTAKEN PRIOR TO COMMENCEMENT OF ANY WORKS/OCCUPATION. WE RECOMMEND PROFESSIONAL SERVICE LOCATIONS.
5. THE BOUNDARY DIMENSIONS SHOWN ARE BASED ON DP 891862 DATED 23/07/1988 & DP 81750 DATED 20/05/1991.
6. WALLS, FOUNDATIONS OR FOOTINGS MAY BE REMOVED IN ORDER TO MATCH ANY SUBJECT WALLS, FOUNDATIONS OR FOOTINGS MAY BE EXPOSED UPON EXCAVATION LAND.
7. NO EXCAVATIONS HAVE BEEN MADE TO DETERMINE THE EXACT TO WHICH ANY ADJOINING WALLS, FOUNDATIONS OR FOOTINGS MAY ENDOURGE UPON SUBJECT LAND.
8. ALL TREE DIMENSIONS, HEIGHT (M), CANOPY (C) AND TRUNK DIAMETER (D) HAVE BEEN MEASURED. THE MEASUREMENTS ARE REQUIRED FOR DESIGN PURPOSES, FURTHER SURVEY SHOULD BE REQUESTED.
9. CONTOURS SHOWN DEPict THE TOPOGRAPHY, CONTOURS DO NOT REPRESENT THE EXACT LEVEL. AT ANY PARTICULAR POINT, EXCEPT AT SPOT LEVELS SHOWN.
10. THIS PLAN MUST REMAIN UNALTERED AS ISSUED BY MOUNTAIN AND POWERS. ALTERING ANY PART OF THIS PLAN WITHOUT THE WRITTEN PERMISSION OF MOUNTAIN AND POWERS MUST BE ISSUED BY MOUNTAIN AND POWERS.
11. THESE NOTES ARE AN INTEGRAL PART OF THIS PLAN. REPRODUCTION OF THIS PLAN OR ANY PART OF THIS PLAN WITHOUT THE WRITTEN PERMISSION OF MOUNTAIN AND POWERS IS NOT SUITABLE FOR USE. THE INFORMATION SHOWN ON SUCH REPRODUCTION WILL NOT BE SUITABLE FOR USE.

1. THE SURVEY IS ON PLANE INTEGRATED SURVEY GRID (ISG).
BASED ON SSM 107966 - E365101.390 N1359168.652
(ARCHITECTURE CARPARK)
2. ALL REDUCED LEVELS ARE BASED ON AUSTRALIAN
HEIGHT DATUM (A-H-D)
3. ORIGIN OF LEVELS SSM 107966 RL22.199 (A-H-D)
(ARCHITECTURE CARPARK)
4. CONTOUR INTERVAL IS 0.5m.

TREES		SERVICES	
TR	TREE HEIGHT H C D	KIP	INLET PIT
		INV	INLET LEVEL
		SIP	SURFACE INLET PIT
		LP	INLET POLE
		ESS	INLET POLE
		EPI	ELECTRICITY SUB
		TPT	TELSTRA PIT
		TP1	TELSTRA PILLAR
		IPS	SEWER INSPECTION P
		SMH	SEWER MANHOLE
		HYD	HYDRANT
		SV	STOP VALVE
		SGN	SIGN POST
		SFR	SPRINKLER
		MM	MONITORING WELL
		EW	ELECTRICITY MARKER
		WV	WATER VALVE
		COM	COMMUNICATIONS PIT
		INV,N	INVERT NOT AVAILABLE



LINE TYPES	
D	DENOTES STORMWATER PIPE
—	DENOTES DISH DRAIN
—	DENOTES UNDERGROUND ELECTRICITY CABLE
E	DENOTES ELECTRICAL
—	DENOTES TELEPHONE CABLE
S	DENOTES SEWER MAIN
—	DENOTES WATER MAIN
—	DENOTES RETAINING WALL
—	DENOTES EDGE OF CONCRETE
—	DENOTES TOP OF BANK
—	DENOTES TOP OF ROAD
THE TOP	DENOTES CENTRELINE OF BITUMEN
—	DENOTES EDGE OF BITUMEN

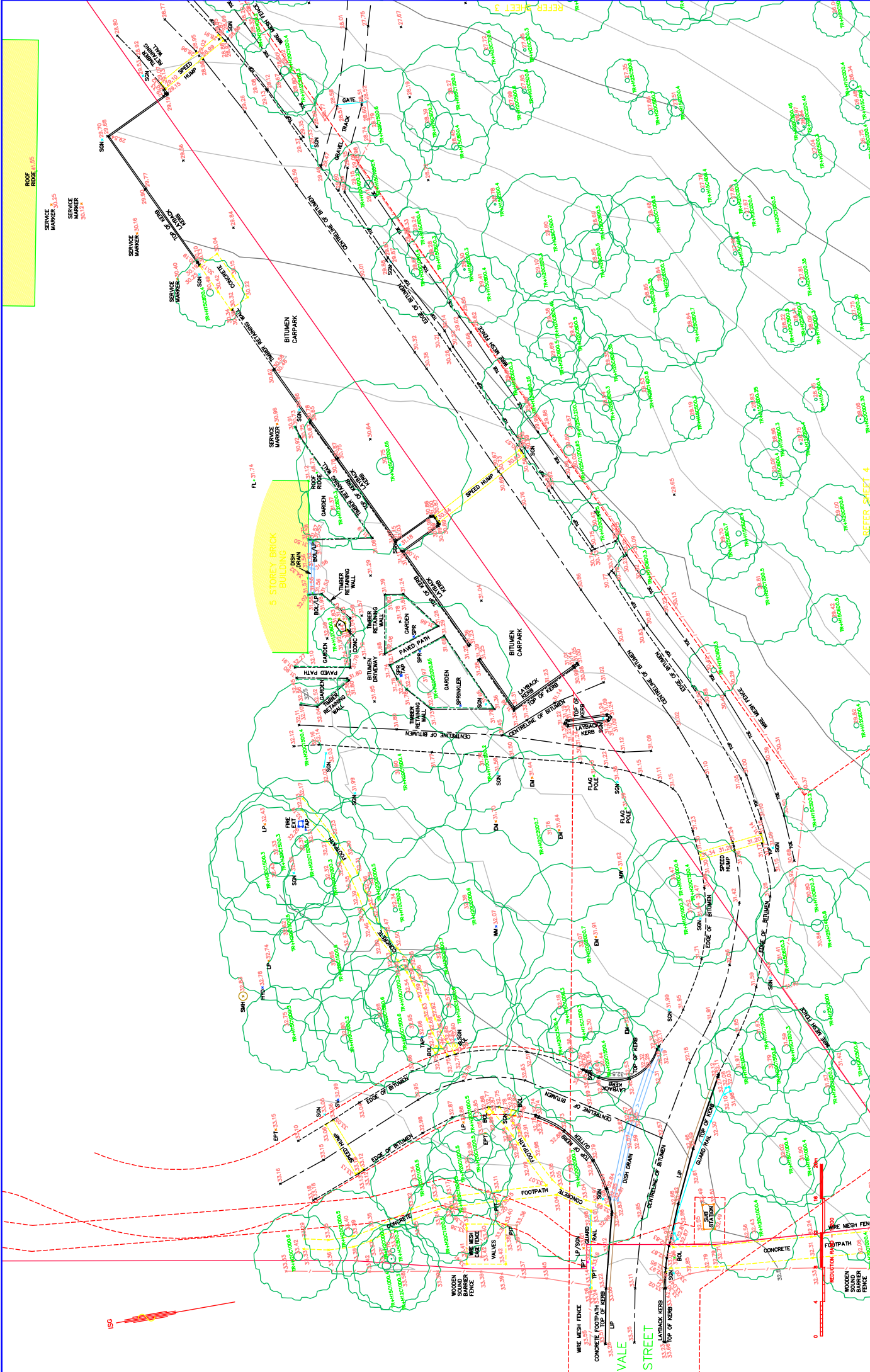
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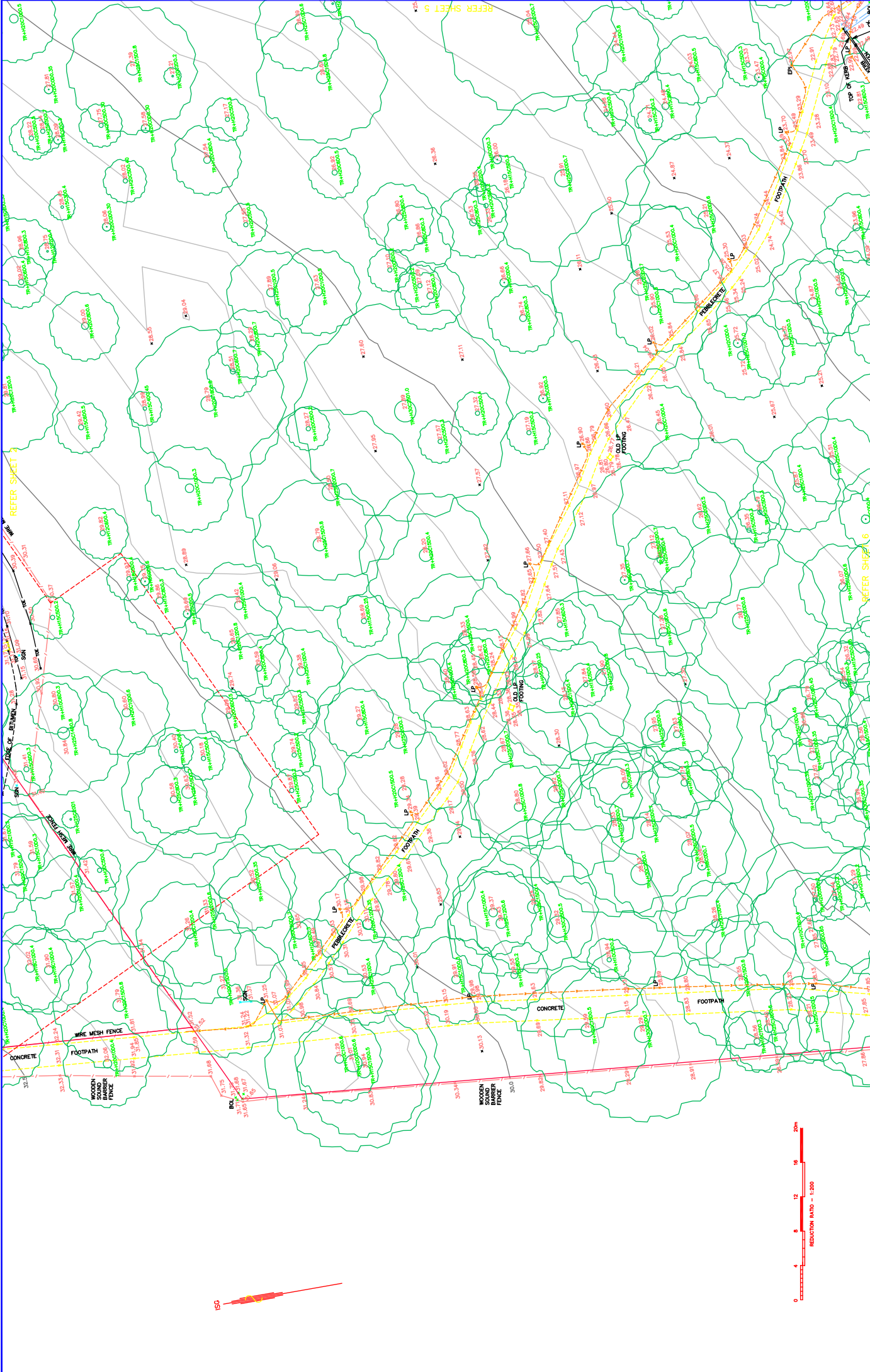
SURVEYING
PLANNING
ENGINEERING DESIGN
PROJECT MANAGEMENT

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PO Box 726 Newcastle NSW 2300
T 61 2 4926 1388 F 61 2 4926 3475
E info@monteathpowys.com.au
W www.monteathpowys.com.au

Surveyed CT	Drifted MAK	Checked PEP	Client	UNIVERSITY OF NEWCASTLE
Title DETAIL SURVEY OF NORTH WESTERN AREA OF UNIVERSITY CAMPUS AND PART OF BHP BILLITON NEWCASTLE TECHNOLOGY CENTRE, CALLAGHAN				
Scale @A1: 1:1000 @A3: 1:2000 REGISTERED SURVEYOR Original Size				
DO NOT SCALE	A1	CAD FILE: 10227G	Ref No: 10/227	Date: 24/05/2011



Revisions		Copyright Notice		Monteath & Powys		University of Newcastle		Sheet No. 2/9	
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						CAD File: 10227G		Red No: 10/227	
						Date: 24/05/2011			

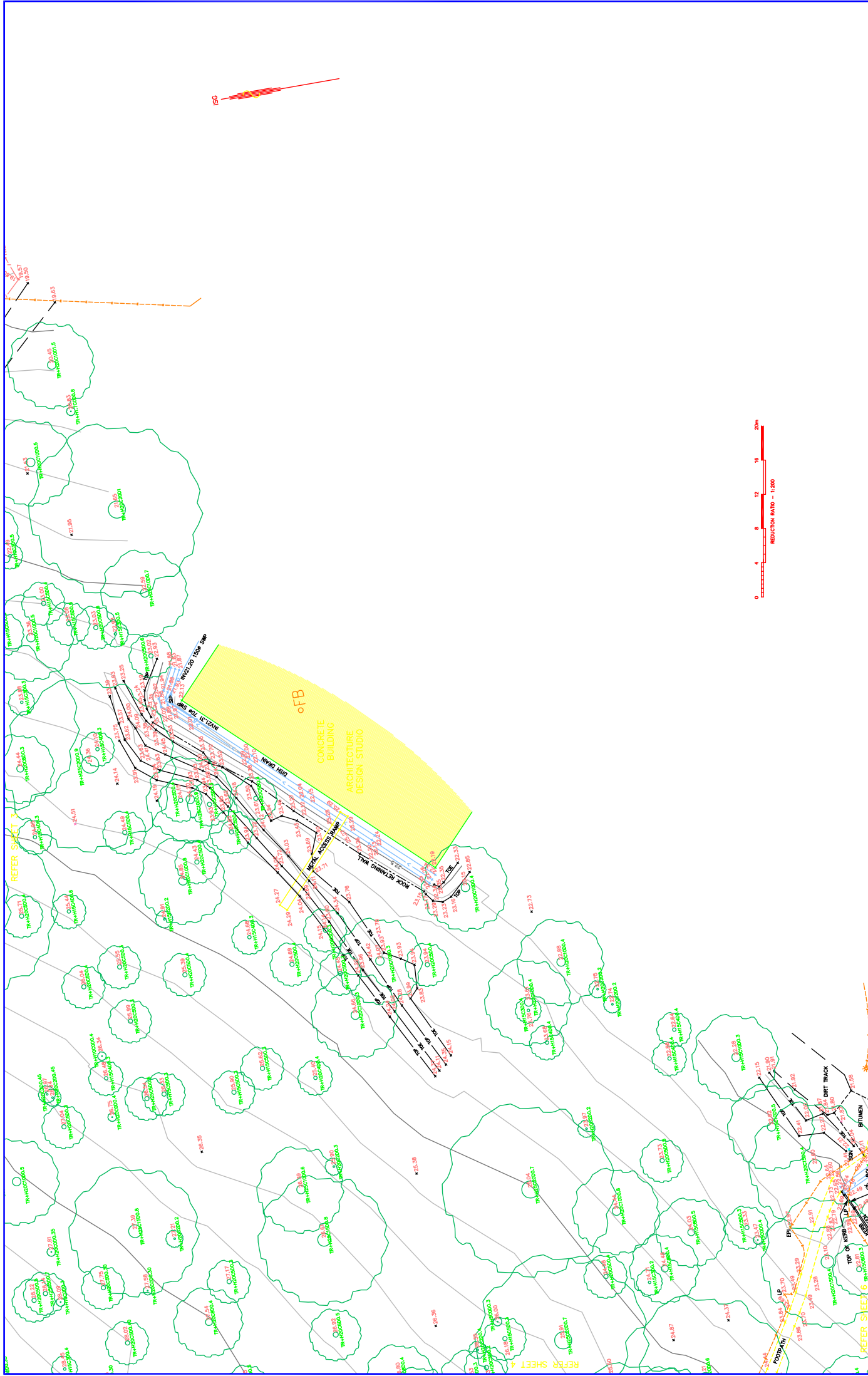


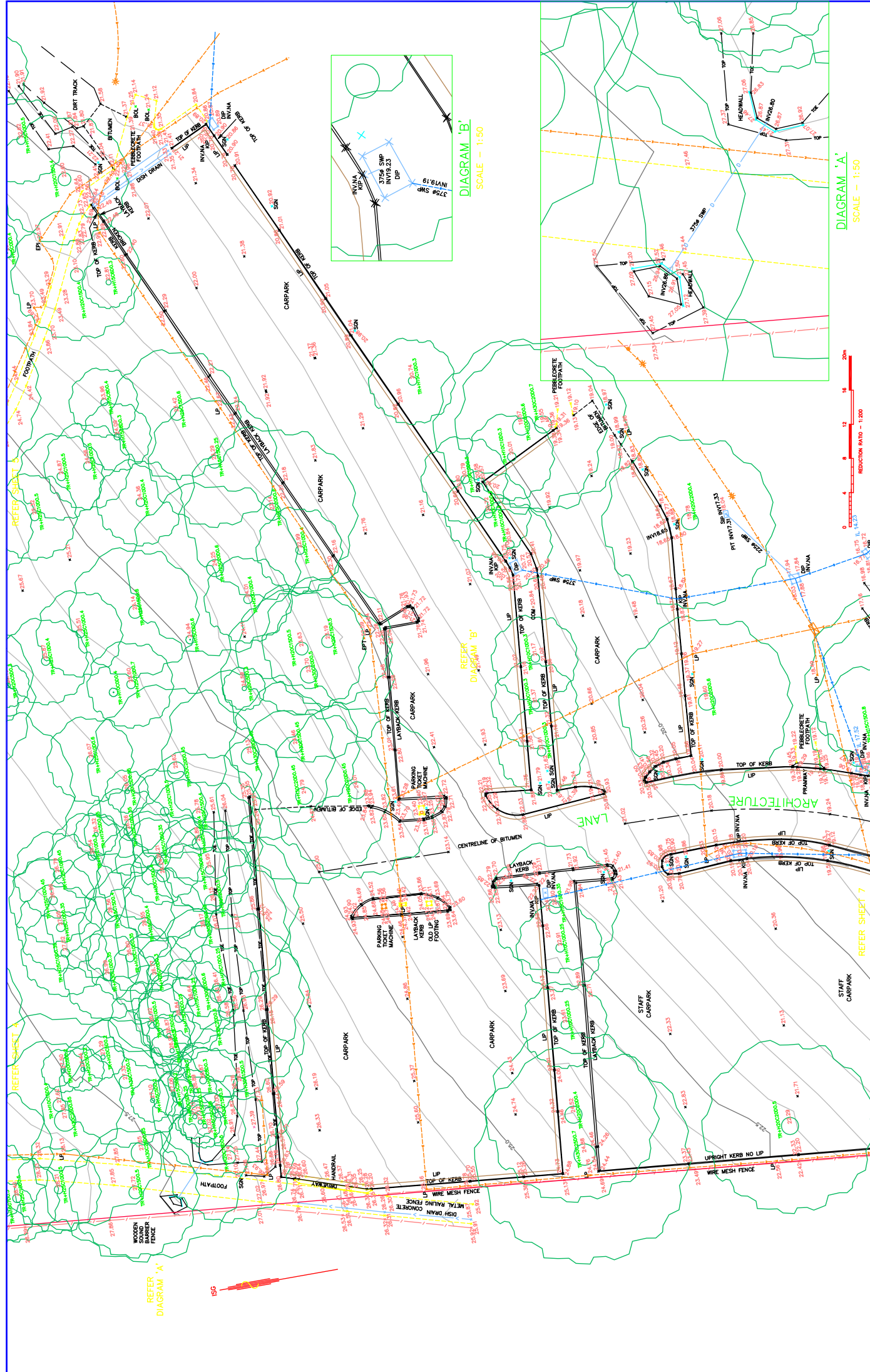
REVISIONS		No		Revision	

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UNIVERSITY OF NEWCASTLE		Client	
DETAIL SURVEY OF NORTH WESTERN AREA OF UNIVERSITY CAMPUS AND PART OF BHP BILLITON NEWCASTLE TECHNOLOGY CENTRE, CALLAGHAN		Checked PEP	
CAD FILE: 1022TG		Drafted MAK	
Red No: 10227		Scale @A1: 1:200 @A3: 1:400	
Date: 24/05/2011		Original Size A1	
Sheet No. 4/9		DO NOT SCALE	

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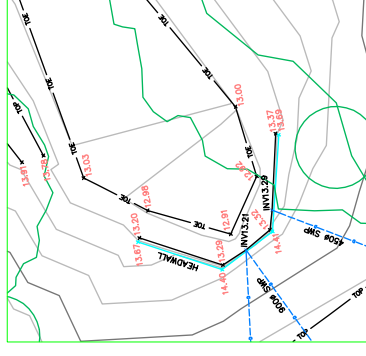
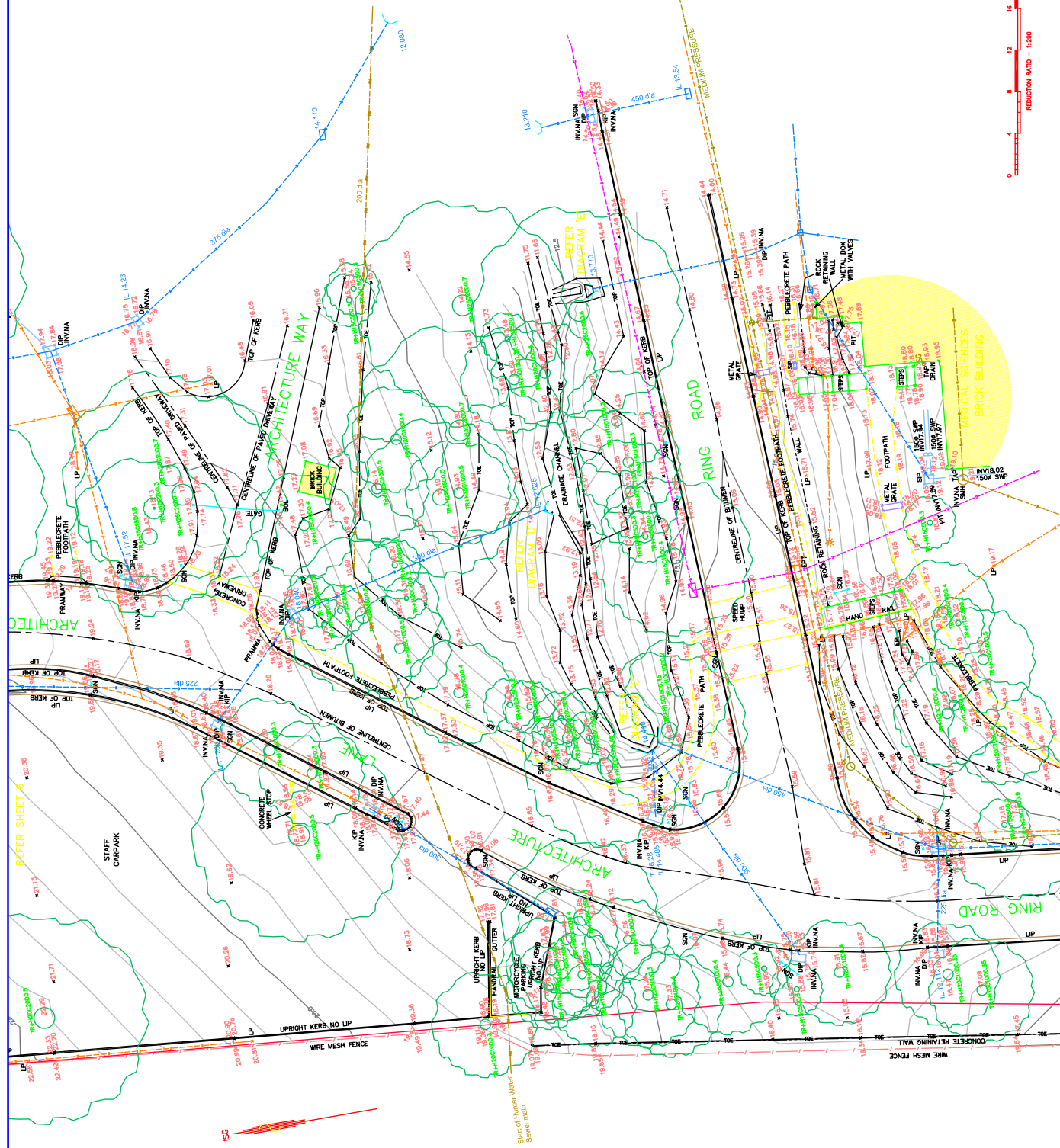


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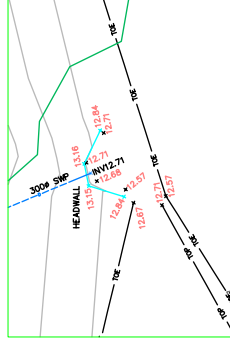


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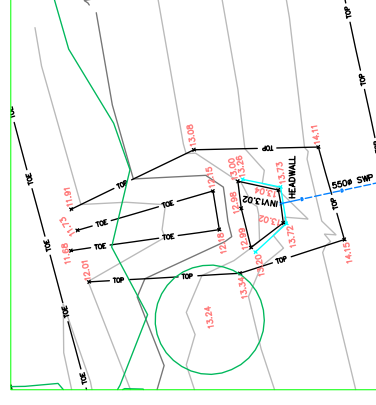
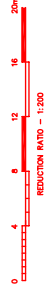


DIAGRAM 'E'
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Pty Ltd

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Surveyed	Drafted	Checked
CT	MAK	PEP

REGISTERED SURVEYOR		Original Size
Scale	@A1 : 1:200 @A3 : 1:400	A1
DO NOT SCALE		

UNIVERSITY OF NEWCASTLE

DETAIL SURVEY OF NORTH WESTERN AREA OF UNIVERSITY CAMPUS AND PART OF BHP BILLITON NEWCASTLE TECHNOLOGY CENTRE CALLAGHAN

Ref No:	10/227	Date:	24/05/2011
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