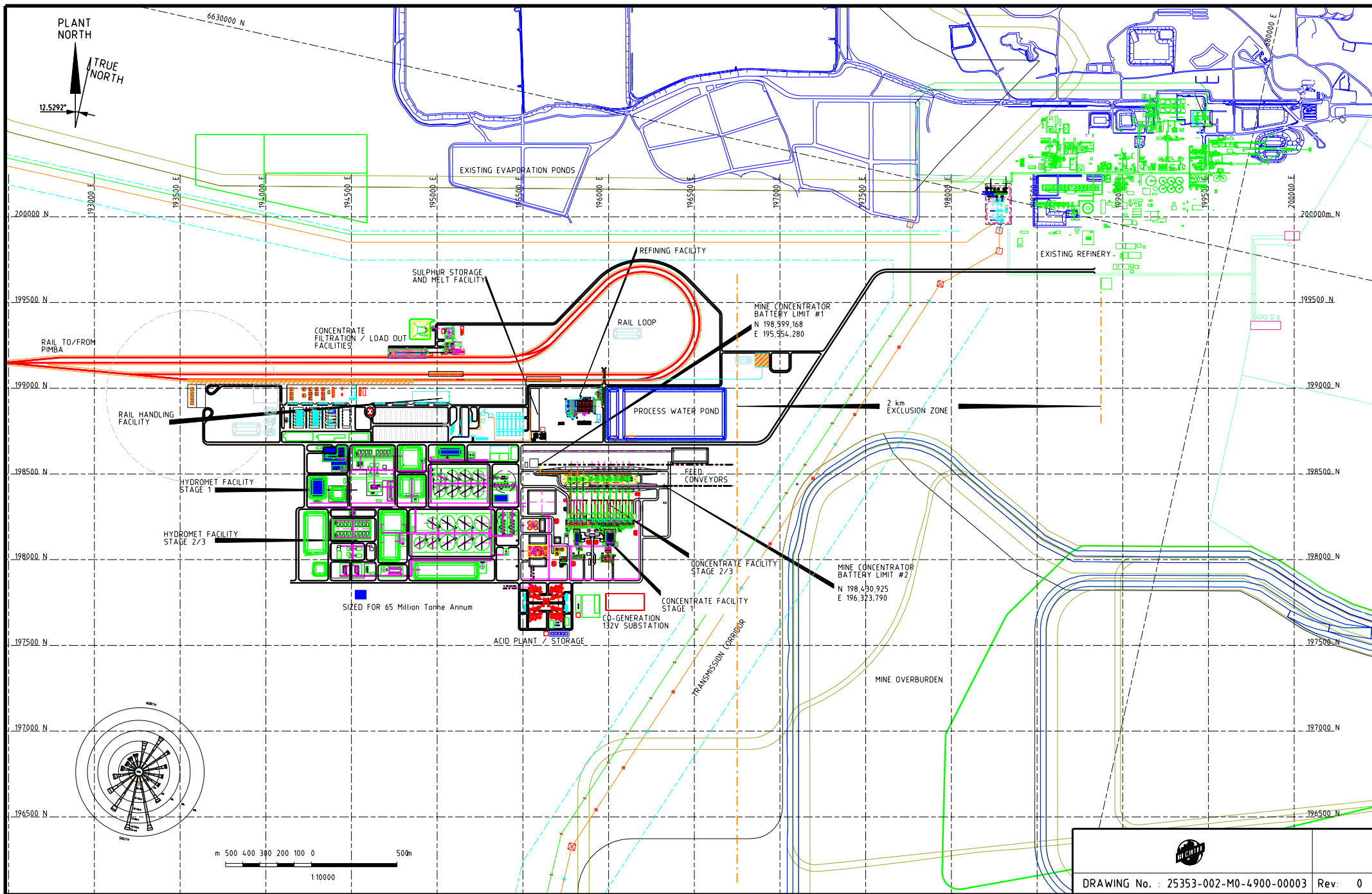




APPENDIX F2

Concept design drawings



DRAWING No. : 25353-002-M0-4900-00003 Rev: 0

ISSUED FOR USE		ISSUED FOR CLIENT APPROVAL		REVISIONS										REVISIONS										REFERENCE DRAWINGS										NUMBER									
No	DATE	DRN	CHK	DES	PE	CE	ME	No	DATE	DRN	CHK	DES	PE	CE	ME	No	DATE	DRN	CHK	DES	PE	CE	ME	No	DATE	DRN	CHK	DES	PE	CE	ME	No	DATE	DRN	CHK	DES	PE	CE	ME				
0	09FEB08	GK																																									
C	10JAN08	GK																																									

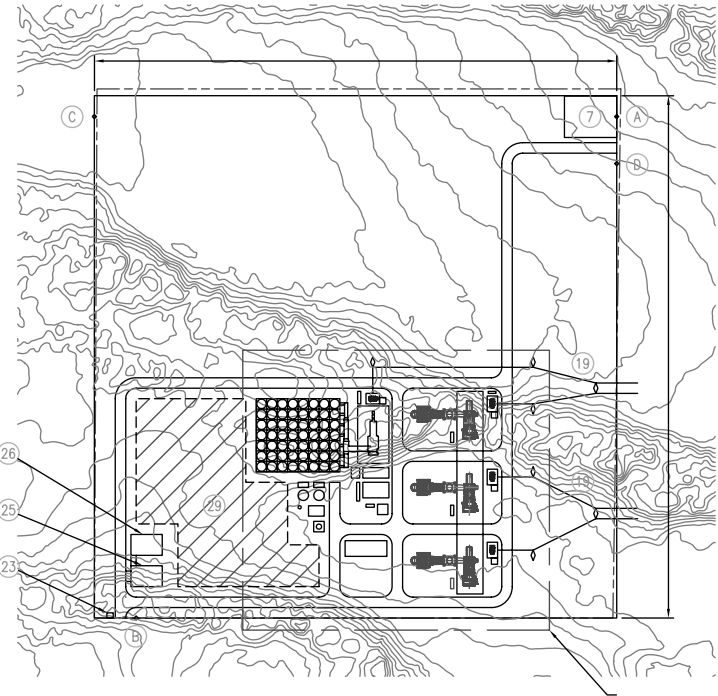


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DRAWN	G KORSTEN	DESIGNED		
CHECKED		DESIGNED		
DESIGNED		PE APPROVED		
PE APPROVED		CE APPROVED		
CE APPROVED		ME APPROVED		
ME APPROVED				

OLYMPIC DAM EXPANSION CASE 9B STAGE 1 AND 2
GENERAL
MINING INFRASTRUCTURE AND ORE PROCESSING PLANT
AREA LAYOUT

BHP Billiton Olympic Dam Corporation Pty Ltd. ACN 007 835 761

REV: 0 A1

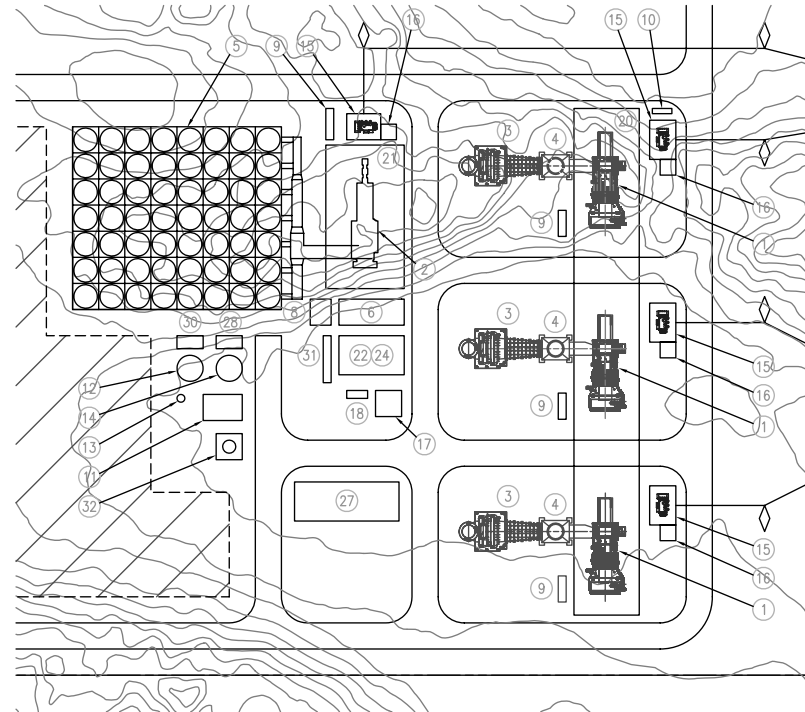


100 75 50 25 0 100 200 300 400 500m
SCALE 1:2500



TERMINAL POINTS	
A	FUEL GAS
B	RAW WATER
C	STORM WATER
D	WASTE WATER

PLANT ITEMS	
1	GAS TURBINE GENERATOR
2	STEAM TURBINE
3	HEAT RECOVERY STEAM GENERATOR
4	BYPASS STACK
5	AIR COOLED CONDENSER
6	BOILER FEED PUMP AND DEAERATOR
7	FUEL GAS RECEIVING AND CONDITIONING AREA
8	COMPRESSED AIR PLANT
9	FIN FAN COOLER
10	OIL / WATER SEPARATOR
11	WATER TREATMENT PLANT
12	RAW WATER TANK
13	POTABLE WATER TANK
14	DEMINERALISED WATER TANK
15	GENERATOR TRANSFORMER
16	UNIT TRANSFORMER
17	BLACK START DIESEL GENERATOR
18	EMERGENCY DIESEL GENERATOR
19	TRANSMISSION LINE
20	GAS TURBINE BUILDING
21	STEAM TURBINE BUILDING
22	CONTROL BUILDING
23	GATE HOUSE
24	SWITCHGEAR BUILDING
25	ADMINISTRATION CARPARK
26	ADMINISTRATION BUILDING
27	WORKSHOP / STORES
28	FIRE FIGHTING BUILDING
29	CONSTRUCTION LAY DOWN AREA
30	WASTE WATER COLLECTION AREA
31	AUXILIARY TRANSFORMERS
32	FUEL OIL TANK



20 0 20 40 60 80 100m
SCALE 1:1000

Rev.	Date	Revision Details	Drn	Ver.	App.
B	11.04.08	ISSUED WITH DRAFT SELECTION STUDY REPORT			RE
A	04.04.08	ISSUED WITH DRAFT BASIS OF DESIGN REPORT			RE

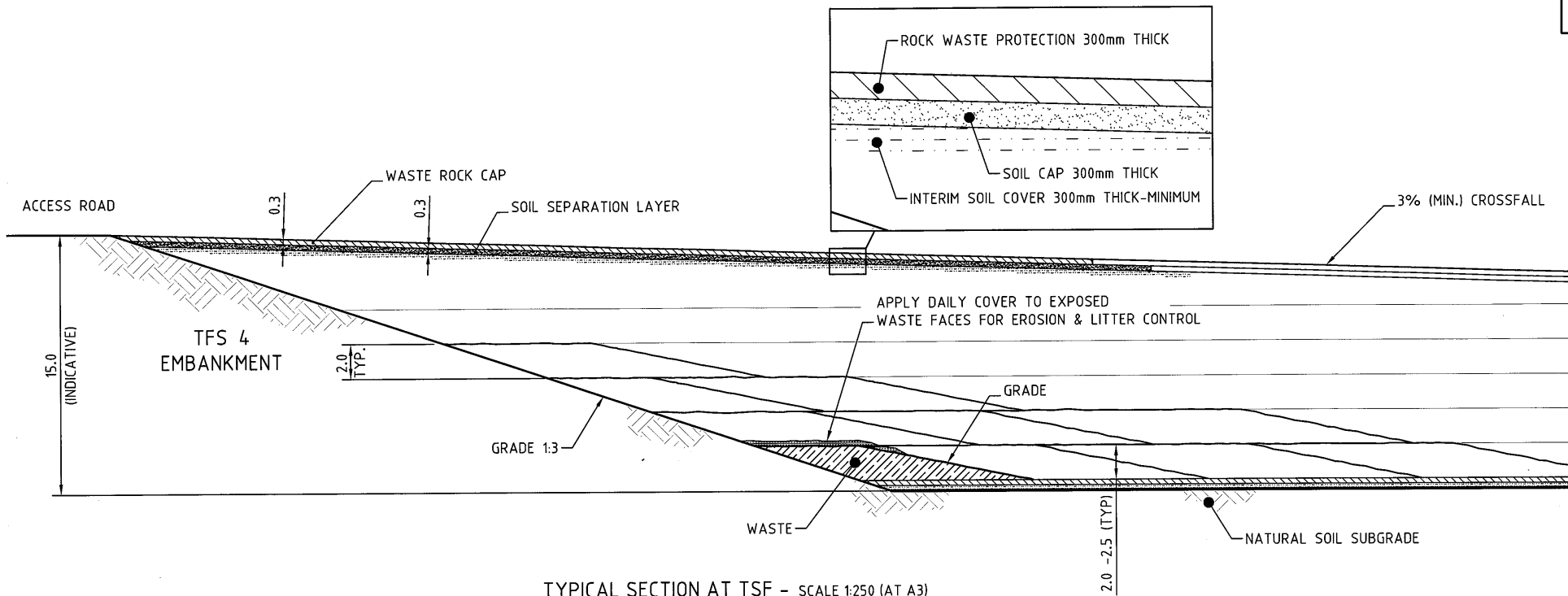


Client: bhpbilliton
Project: OLYMPIC DAM EXPANSION PROJECT
POWER STATION
SELECTION PHASE STUDY

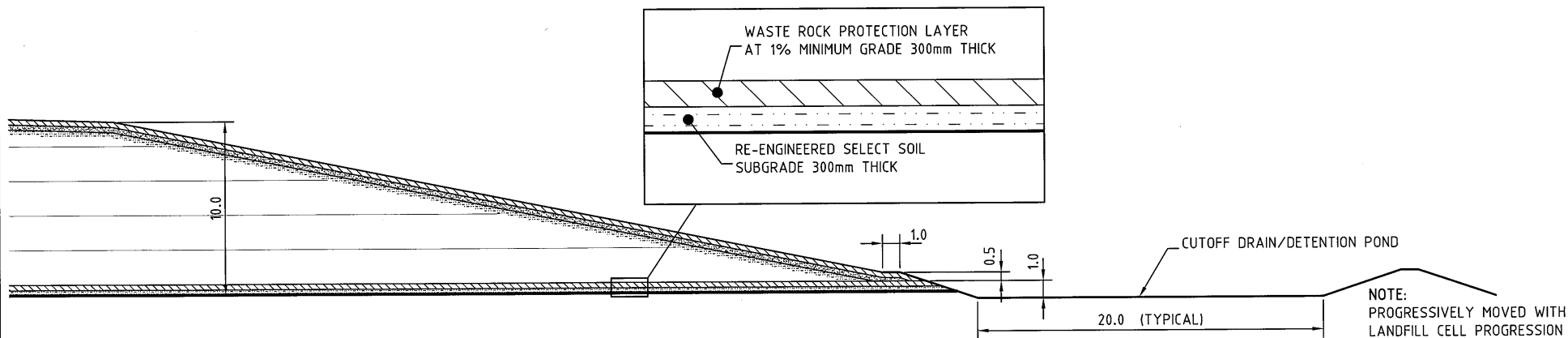
Drawn	Signed	Date	Drawing Title
BC			
Designed	Signed	Date	
Verified	Signed	Date	
Approved	Signed	Date	

PRELIMINARY NOT FOR CONSTRUCTION	
Project No.	33075
Scale	AS SHOWN
Sheet Size	A1
Drawing No.	ODP3402-DO-0001
Rev.	B

20 0 20 40 50 100m



TYPICAL SECTION AT TSF - SCALE 1:250 (AT A3)



TYPICAL SECTION AT TOE OF LF - SCALE 1:250 (AT A3)

© TONKIN CONSULTING

REVISION	AMENDMENT / REASON FOR ISSUE	APPROVED	DATE
2	AMENDED REISSUED FOR COMMENT		4.11.08
1	ISSUED FOR COMMENT		



ADELAIDE
TONKIN CONSULTING
 5 COOKE TERRACE
 WAYVILLE SA 5034
 T +61 8 8273 3100
 F +61 8 8273 3110
 E adelaide@tonkin.com.au

SCALE: 1:250 (AT A3)	SHEET SIZE A3
DESIGNED: PJL	DRAWN: ALW
PROJECT MANAGER:	SENIOR DRAFTER:
SURVEYED:	SURVEY DATE:
APPROVED:	
DATE:	

BHP BILLITON Pty Ltd
PROPOSED LANDFILL FACILITY
SECTION

CAD REFERENCE: 20070827_Landfill_Facility.dwg	SHEET NUMBER 1	JOB NUMBER 2007.0827	REVISION 2
---	-------------------	-------------------------	---------------



OLYMPIC WAY

PIMBA - OLYMPIC DAM ROAD

CLAY PAN

CLAY PAN

LEGEND

-  NEW MAJOR ROAD
-  NEW MINOR ROAD
-  FOCAL BUILDING / LOT - 4 total
-  NEW LOT (>4500m2) - 4 total
-  NEW LOT (4501 - 6000m2) - 44 total
-  NEW LOT (6001 - 7500m2) - 23 total
-  NEW LOT (7501 - 9000m2) - 12 total
-  NEW LOT (<9000m2) - 8 total
-  RECREATION / OPEN SPACE - 1 total
-  FUTURE EXPANSION
-  NEW SCREEN PLANTING
-  EXISTING VEGETATION

NOTE

PROVIDE STREET TREE PLANTING TO SIDES OF BOTH MAJOR & MINOR ROADS AT 8No. TREES PER 10 LINEAL MTRS.

Client



Drawing

HEAVY INDUSTRIAL AREA - LOT PLAN

Drawing No

PML7763 - PFS - L - P14 -02

Date

23.03.07

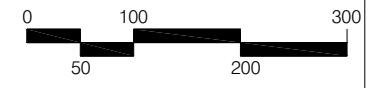
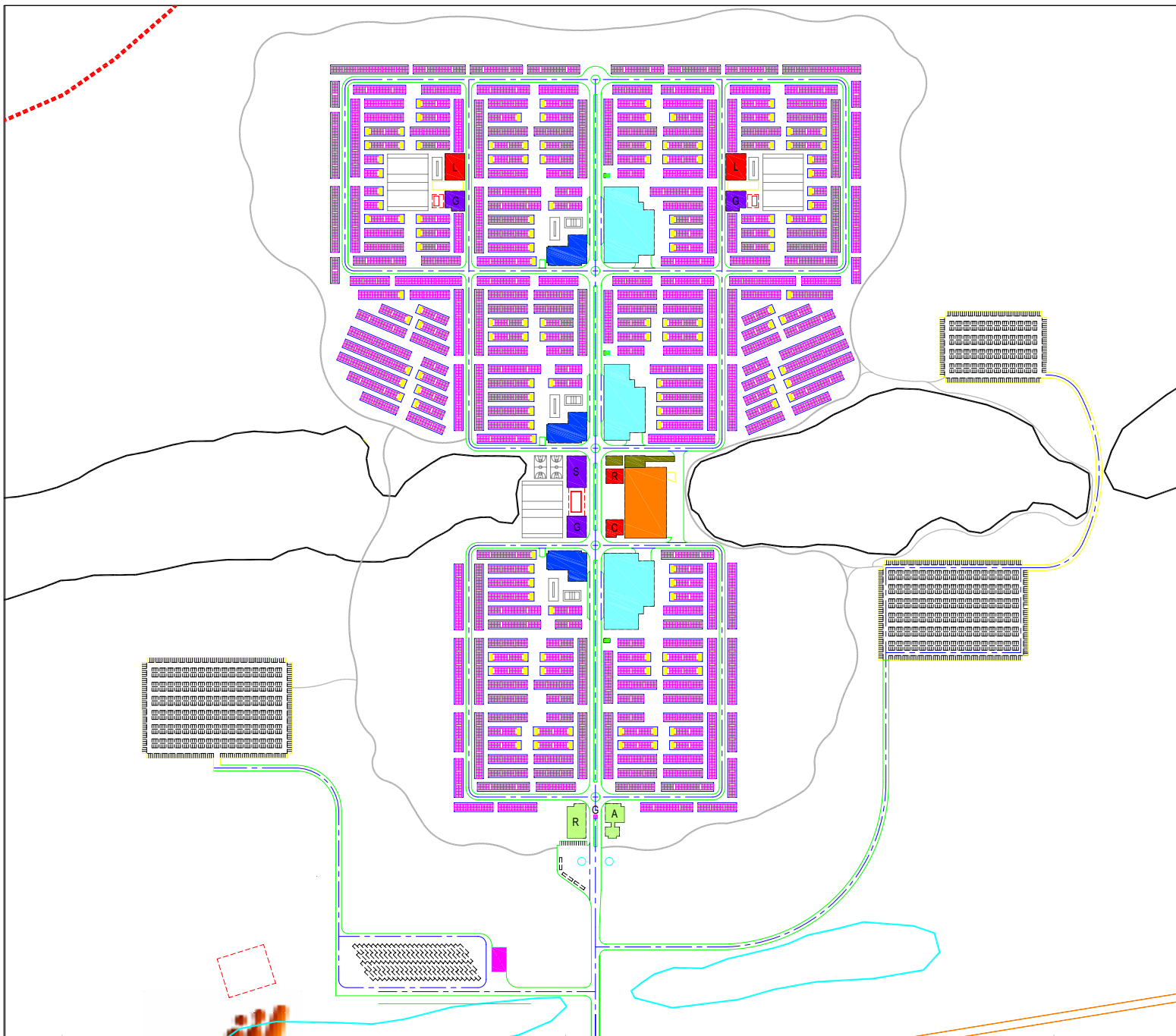


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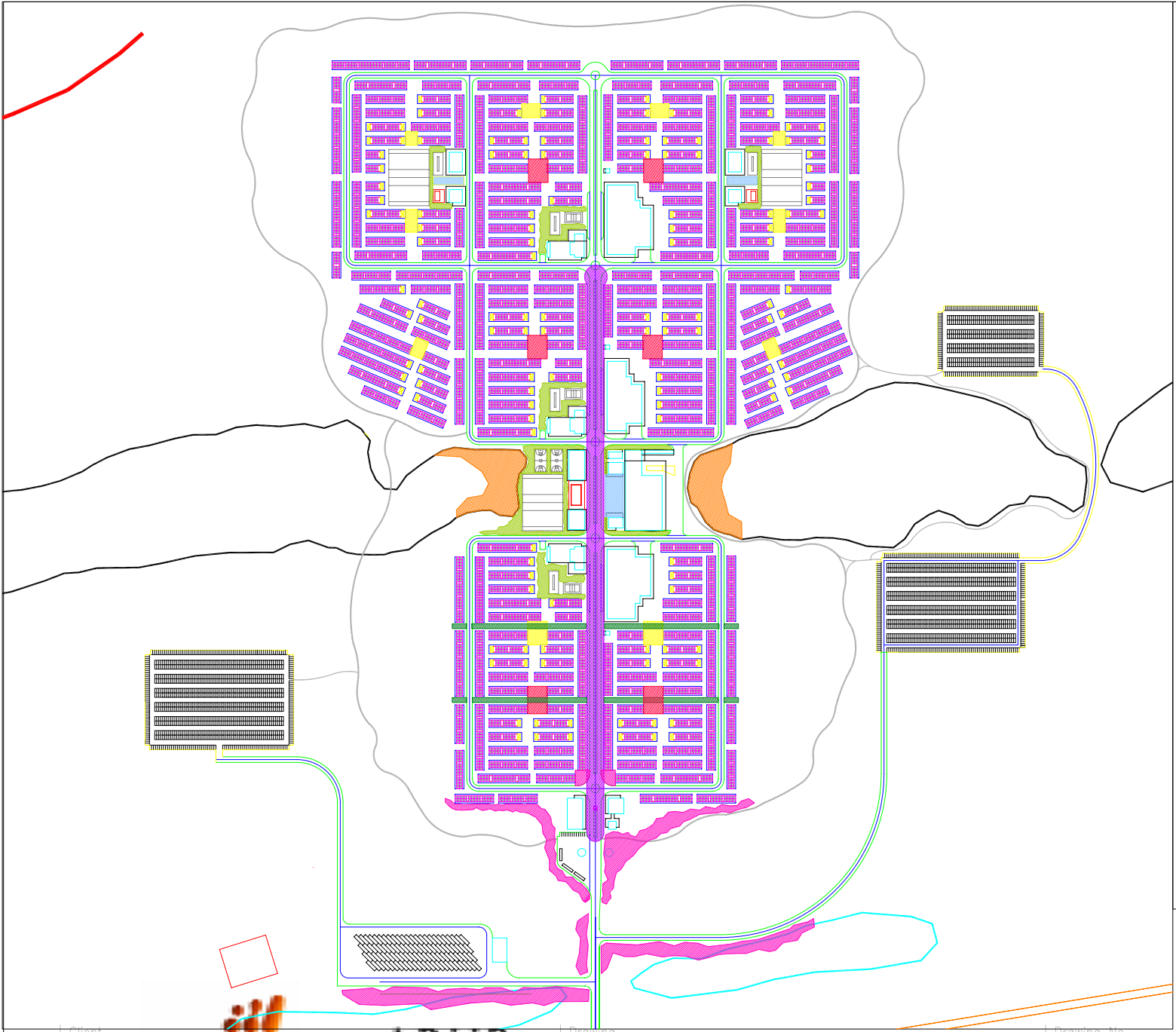
1 : 5000

LEGEND

- G GATE HOUSE
- R RECEPTION
- A MAIN ADMINISTRATION
- DINING & KITCHEN
- TAVERN / CLUB
- S INDOOR SPORTS
- G GYMNASIUM
- I INTERNET CAFE / LICENCED RETAIL
- C COFFEE SHOP / INTERNET CAFE
- R RETAIL STORE
- CENTRAL WAREHOUSE
- MAINTENANCE ADMIN
- MAINTENANCE WAREHOUSE
- MAINTENANCE SHED
- BUS TERMINAL / MAINTENANCE
- ICE MAKING SHED
- ACCOMODATION MODULE
4000 NEW, 2700 REUSED - ODV (CAMP 1)
- LAUNDRY



Date 18.06.08
Scale 1:5000 @ A3



LEGEND

- WATER SPORTS
- MAIN STREET
- PRIMARY PEDESTRIAN LINK
- PRIMARY NODE
- SECONDARY NODE
- ENTRY PLANTING
- DUNE PLANTING
- ADDITIONAL PLANTING

HASSELL



Scale
1:5000 @ A3

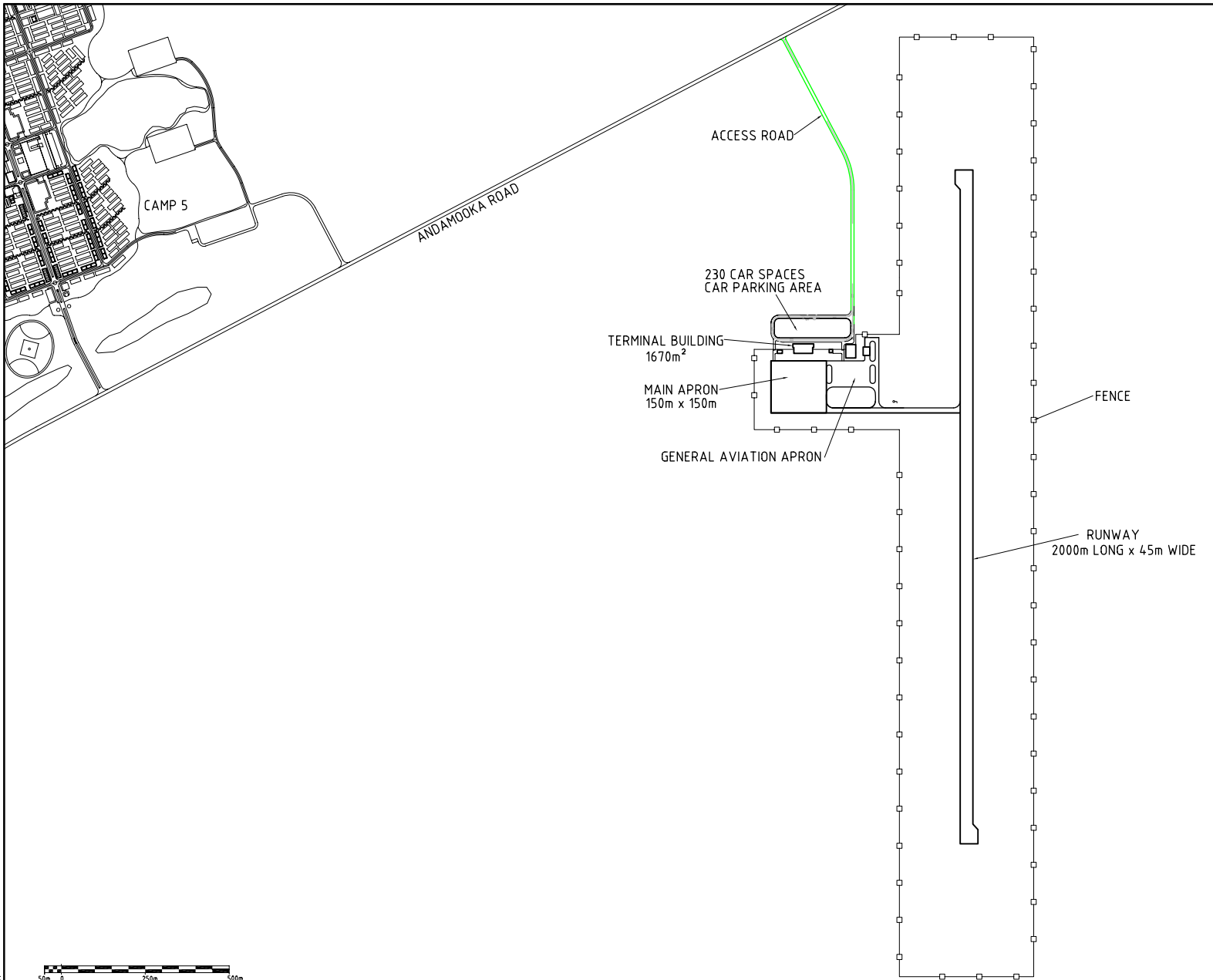
Date
18.06.08

Drawing No
ODP3832-DO-1022

Drawing
KEY PLAN - LANDSCAPE

ARUP

Client
bhpbilliton



NOT FOR CONSTRUCTION

BHPB DRG No.	ODP3152-D0-0001	REVISION	0
--------------	-----------------	----------	---

TITLE	BHP Billiton Pty Ltd ODX Pre -Mine Infrastructure Study ANDAMOOKA ROAD AIRPORT SITE LAYOUT
-------	---

DRAWING No.	AEE610-P-DWG-6001	REVISION	0
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PREPARED FOR	
REFERENCE DRAWINGS	
FOR REFERENCED DOCUMENTS USE THE LATEST EDITIONS, WITH AMENDMENTS, EXCEPT WHERE EDITIONS OR AMENDMENTS ARE REQUIRED BY STATUTORY AUTHORITIES.	
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REV	0	UPDATED WITH LATEST INFORMATION	18.05.07
REV		DESCRIPTION	DATE
		REVISIONS	

SKM
SINGLAR KNIGHT MERZ
ABN 37 001 024 995
Level 5, 33 King William Street,
Adelaide, South Australia 5000

Kellogg Brown & Root Pty Ltd
KBR
KELLOGG BROWN & ROOT Pty Ltd
ABN 91 007 660 317
186 Greenhill Road, Parkside,
South Australia 5063

DRAWING SCALE	ORIG. SIZE	PROJECT No.
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DRAFTER: P MILTON	CAD FILE: AEE610-P-DWG-6001_0.dwg	

	NAME	SIGNATURE
DRAFTING	A KUSTER	
DESIGN	D HAYMAN	
DESIGN VERIFICATION	D MYERS	
PROJECT APPROVAL	R BUTTROSE	
CLIENT		APPROVALS

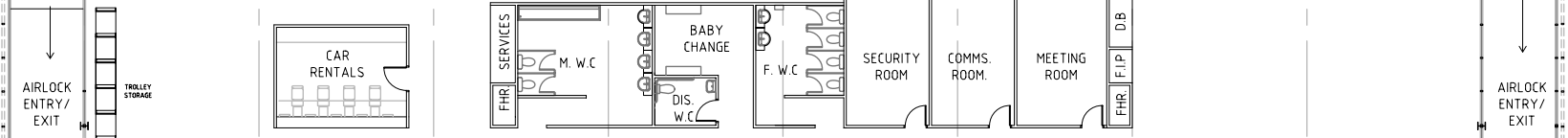
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1 2 3 4 5 6 7 8 9

A LINE OF LOUVERS LINE OF LOUVERS A

LAND SIDE



ARRIVALS HALL

DEPARTURES HALL



TUG PATH BAGGAGE BREAK-DOWN ARRIV. WAY DEP. LOUNGE PASS BACK OVERSIZE BAGGAGE CHECK-IN COUNTER BAGGAGE MAKE-UP TUG PATH

B B

AIR SIDE

1:200 @ A3 0 5 10m

NOT FOR CONSTRUCTION

BHPB DRG No. ODP3152-D5-0001 REVISION 0

AE610-C-DWG-6301	AIRPORT - CIVIL LAYOUT
AE610-A-DWG-6103	TERMINAL BUILDING SECTION
AE610-P-DWG-6001	AIRPORT SITE LAYOUT
DRAWING No.	DESCRIPTION
REFERENCE DRAWINGS	
FOR REFERENCED DOCUMENTS USE THE LATEST EDITIONS, WITH AMENDMENTS, EXCEPT WHERE EDITIONS OR AMENDMENTS ARE REQUIRED BY STATUTORY AUTHORITIES.	
© Kellogg Brown & Root Pty Ltd PLOT DATE: Friday, May 18, 2007	

PREPARED FOR	
0	UPDATED WITH LATEST INFORMATION 18.05.07
REV	DESCRIPTION DATE
	REVISIONS

SKM
SINCLAIR KNIGHT MERZ
ABN 37 001 024 025
Level 5, 33 King William Street,
Adelaide, South Australia 5000

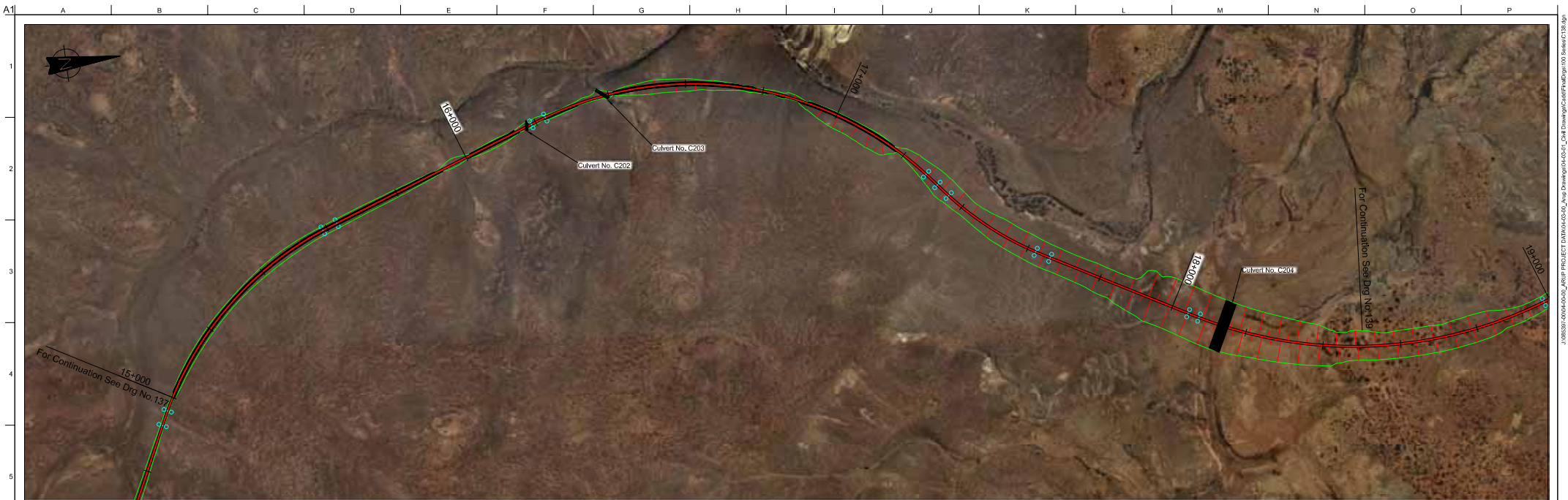
Kellogg Brown & Root Pty Ltd
KBR
KELLOGG BROWN & ROOT PTY LTD
ABN 91 007 660 317
186 Greenhill Road, Parkside,
South Australia 5063

DRAWING SCALE	ORIG. SIZE	PROJECT No.
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DRAFTER: D. HETZER	CAD FILE: AE610-A-DWG-6102_0.dwg	

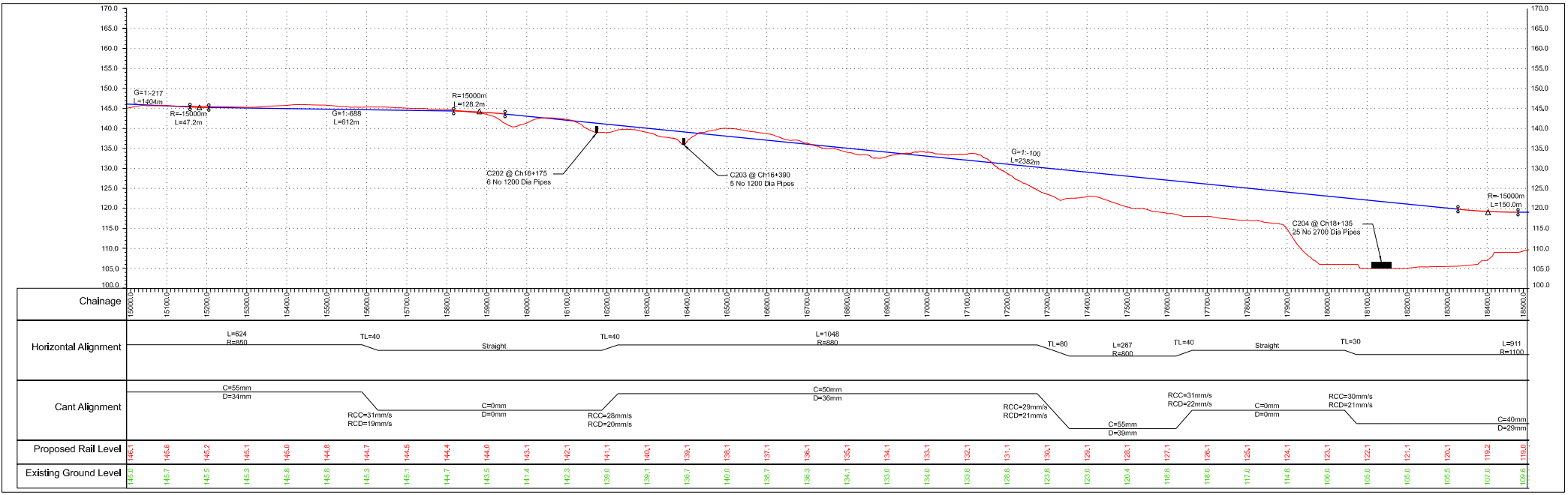
	NAME	SIGNATURE
DRAFTING	A KUSTER	
DESIGN	E LYNCH	
DESIGN VERIFICATION	D MYERS	
PROJECT APPROVAL	R BUTTROSE	
CLIENT		
APPROVALS		

TITLE	REVISION
BHP Billiton Pty Ltd ODX Pre-Mine Infrastructure Study ANDAMOOKA ROAD AIRPORT TERMINAL BUILDING FLOOR PLAN	0
DRAWING No.	REVISION
AE610-A-DWG-6102	0

K:\CS\CAD\Projects\AE610\Drawings\Airport



Plan 1:5000, Profile H 1:5000 - V 1:500



Notes
For notes see Drawing C100

02	06/02/07	NB	NM	AN
PFS Report Re-Issue				
01	08/12/06	DW	NM	AN
PFS Report Issue				
Issue	Date	By	Chkd	Appd

Client

Job Title
Olympic Dam Expansion Project
Olympic Dam to Finba Railway

Scale: As Shown
Proj ID:

Arup, Level 17, 1 Nicholson Street
Melbourne, Victoria
Tel +61 (0)3968 5500 Fax +61 (0)39683 1548
www.arup.com.au

One Arup Pty Ltd
ARN 16 007 948 166

Drawing Title
Plan and Profile Layouts - WM3
Ch 15+000 to Ch 18+500
Sheet 38 of 42

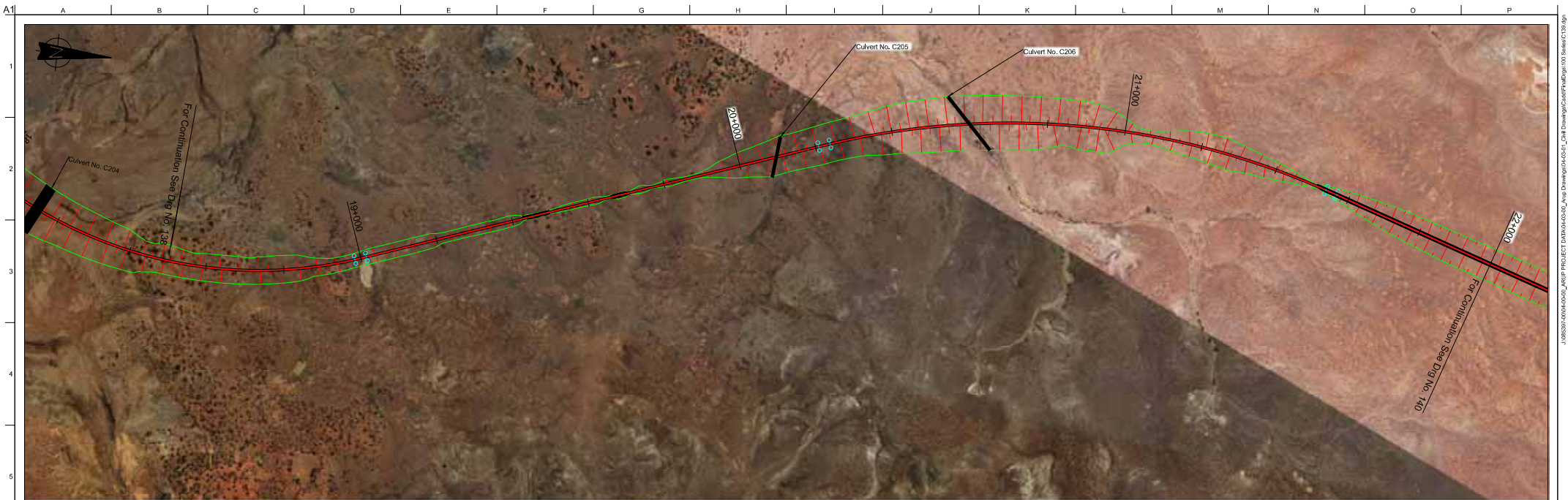
Drawing Status
Pre-Feasibility

Job No
85397

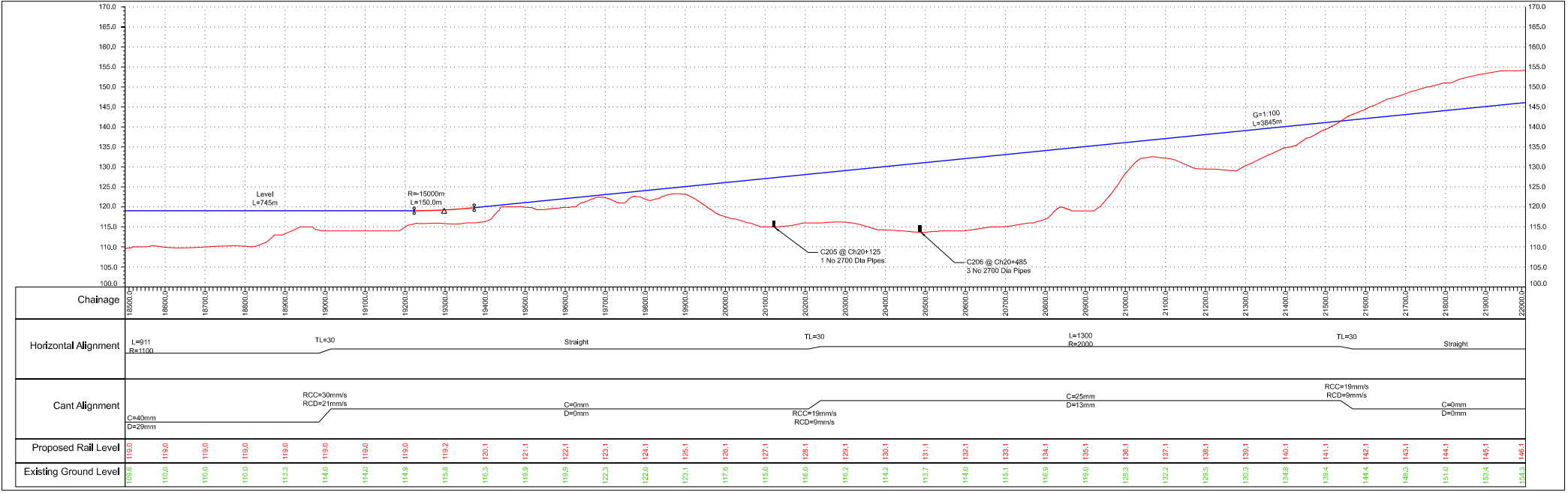
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Issue
02

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Plan 1:5000, Profile H 1:5000 - V 1:500



Notes
For notes see Drawing C100.

02	06/02/07	NB	NM	AN
PFS Report Re-Issue				
01	08/12/06	DW	NM	AN
PFS Report Issue				
Issue	Date	By	Chkd	Appd

Client: **bhpbilliton**

Job Title: **Olympic Dam Expansion Project
Olympic Dam to Finba Railway**

Scale: A1
As Shown

Plot ID:

ARUP

Ans. Level 17, 1 Nicholson Street
Melbourne, Victoria
Tel +61 (0)39668 5500 Fax +61 (0)39663 1548
www.arup.com.au

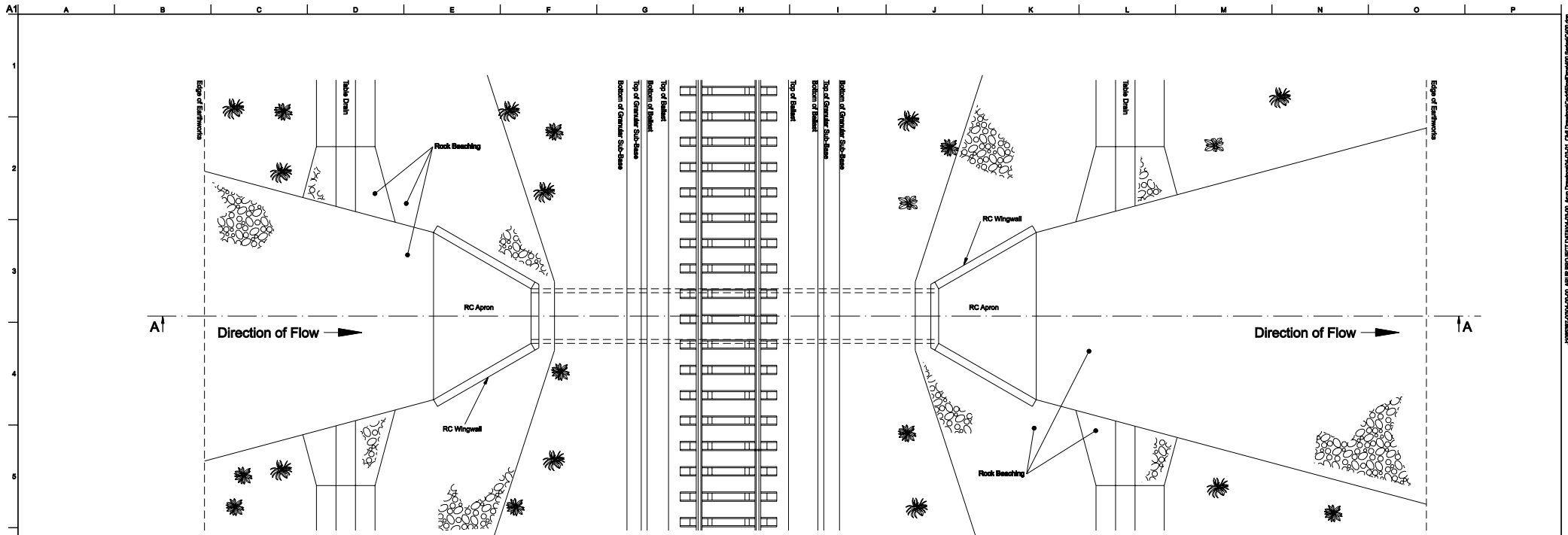
One Australia Ltd
ABN 19 007 968 106

Drawing Title: **Plan and Profile Layouts - WM3
Ch 18+500 to Ch 22+000
Sheet 39 of 42**

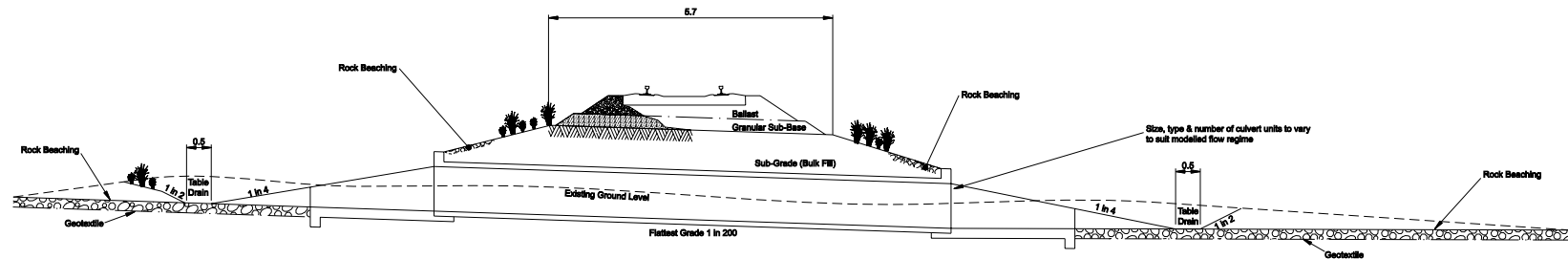
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Job No: **85397** Drawing No: **C139** Issue: **02**

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Typical Culvert Plan



Typical Culvert Section A-A

02	04/10/06	DPW	MRB	ALN
Issue to EIS team for information only				
01	01/09/06	MMG		
Issue for Cost Estimate				
Issue	Date	By	Chkd	Appd

Client

Job Title
Olympic Dam Mine Expansion Project
Olympic Dam to Pimba Railway
 Scale at A1 1:100
 Plot ID

ARUP
 Level 17, 1 Nicholson Street
 Melbourne, Victoria 3000
 Tel +61 (03) 9585 6000 Fax +61 (03) 9583 1548
 www.arup.com
 Owinging Pty Ltd
 ABN 69 001 188 188

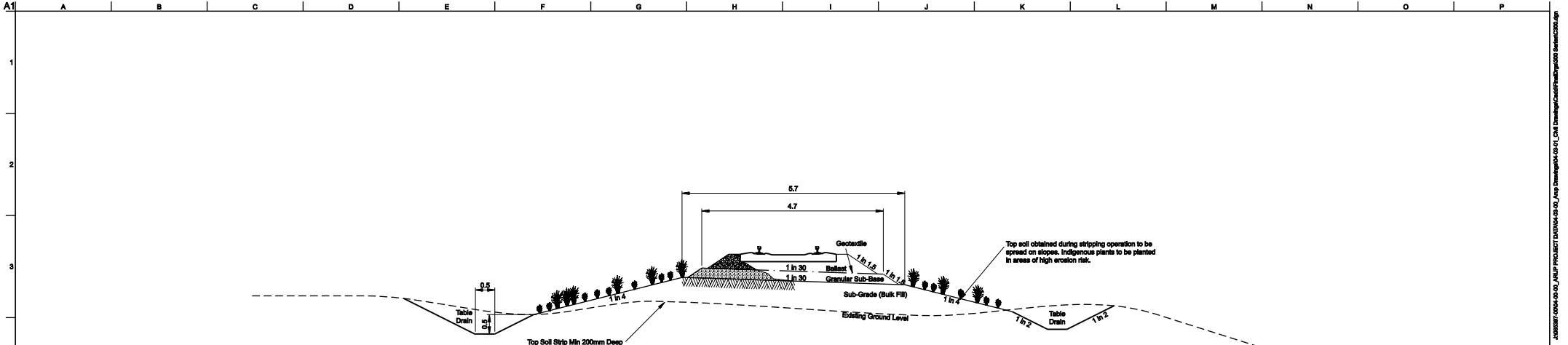
Drawing Title
Typical Culvert Detail

Drawing Status
Pre-Feasibility

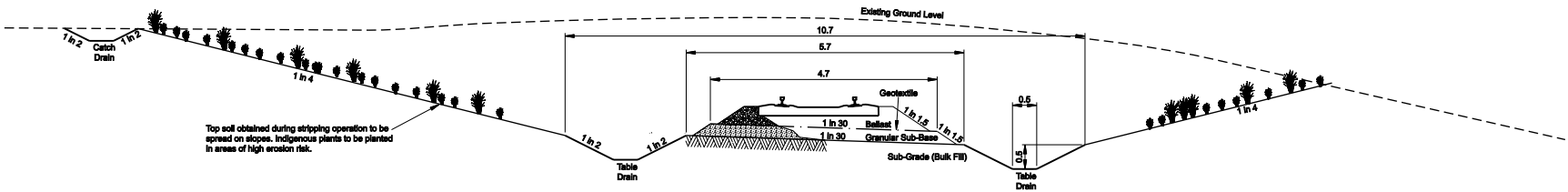
Job No
85397

Drawing No
C400

Issue
02



Typical Section on Fill



Typical Section in Cut

Preliminary Formation Design

	Pinbe to Woomera Ch1+000 to Ch6+000	Arcoona Tablelands Ch9+000 to Ch43+000	Purple Downs Ch45+000 to 55+000	Sand Dunes Ch65+000 to Mile
Geotextile	Yes	Yes	No	No
Granular Sub-Base	0.25m	0.25m	0.2m	0.2m
Ballast	0.15m	0.15m	0.15m	0.15m

Notes

- Capping layer should be good quality, well graded granular material, eg crushed rock.
- Capping depth varies to suit ground conditions.
- Geotextile should be assumed to be BIDIH G44 for costing purposes.
- Geotextile to be used only on clayey or silty subgrades
- Rail to be 50kg/m.
- Sleepers to be pre-stressed concrete.
- Sleeper spacing to be 600mm-700mm.
- Minimum ballast depth to be 150mm below sleeper.

03	04/10/06	DPW	ALN	ALN	
Issue to EIS team for information only					
02	27/09/06	DPW	NM	AN	
Revised following value engineering					
01	01/08/06	MMG	DPW		
Issue for Cost Estimate					
Issue	Date	By	Check	Appd	



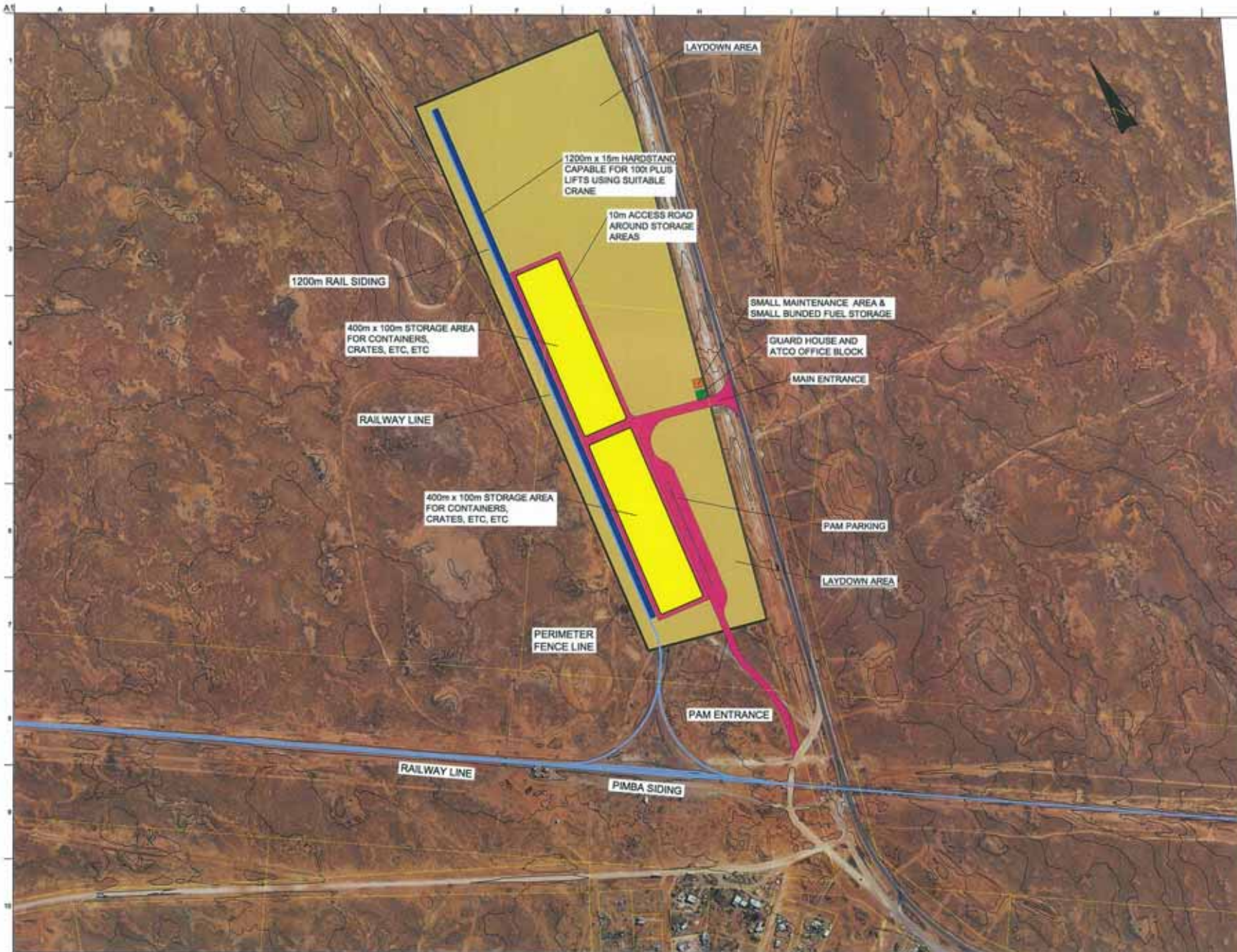
Job Title
**Olympic Dam Mine
Expansion Project
Olympic Dam to
Pinbe Railway**

Scale at A1 1:50
Plot ID



Drawing Title Typical Cross Sections Through Proposed Railway
Drawing Status Pre-Feasibility
Job No 85397
Drawing No C300
Issue 03

24608581-r0406-06-02_40000 PROJECT \\h1064-c3-03_40000 Drawing\300-C300-C3.dwg Drawn by: mlg Date: 22/06/2006 10:22:00



KEY:

■	STORAGE AREA (CRUSHED ROCK)
■	ACCESS ROADS (CRUSHED ROCK)
■	HARDSTAND AREA (CRUSHED ROCK)
■	LAYDOWN AREAS (CRUSHED ROCK)
■	GUARD HOUSE /ATCO OFFICE BLOCK
■	SMALL MAINTENANCE AREA & SMALL BUNDED FUEL STORAGE FOR ONSITE MOBILE EQUIPMENT
—	FENCE LINE

NOTES:

1. FULLY ENCLOSED AREA (FENCED) = 46.8 HECTARES

PI	11/12/27	PREL	NEW
Preliminary Design			
Rev	Date	By	Check



Job Title
OLYMPIC DAM EXPANSION PROJECT
PIMBA

Scale of Plot
1:4000

Client



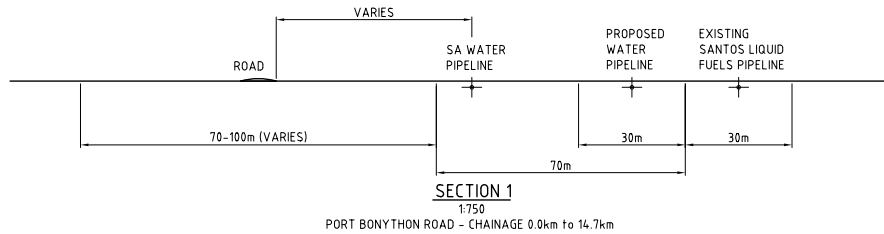
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PIMBA TRANSIT TERMINAL
CONCEPTUAL
GENERAL ARRANGEMENT

Drawing Status
Preliminary

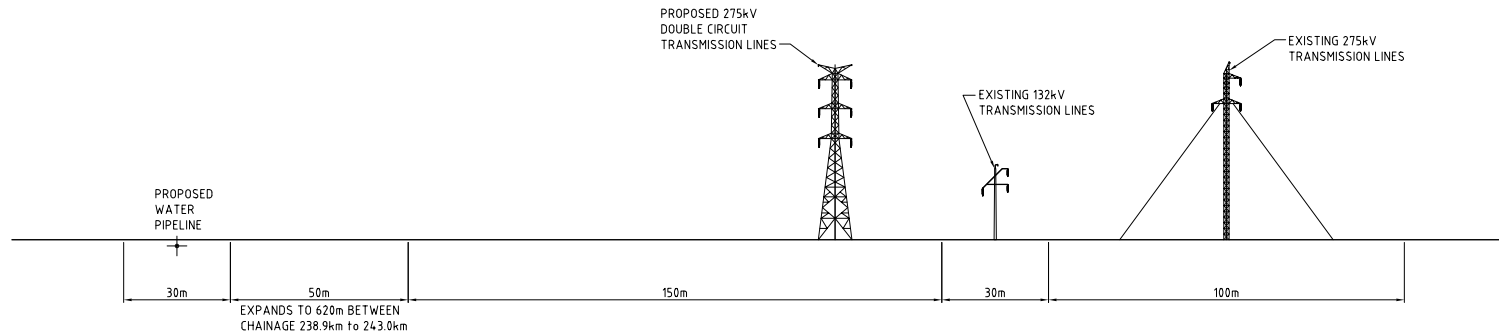
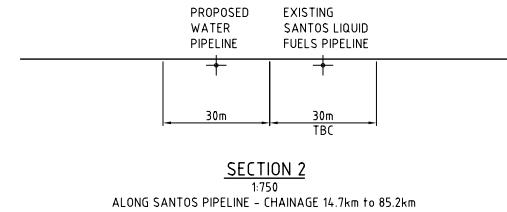
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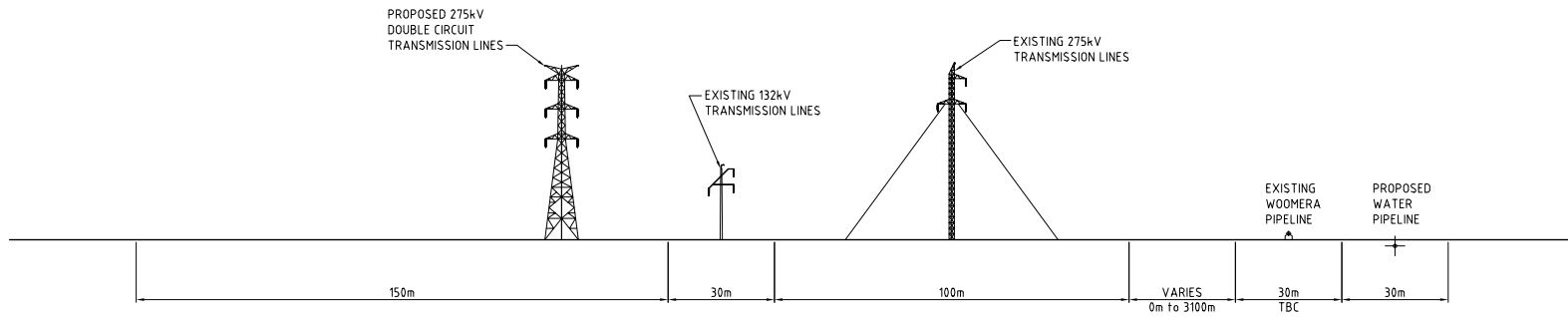
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P1



W ← SECTIONS VIEWED LOOKING NORTH → E



W ← SECTIONS VIEWED LOOKING NORTH → E



NOTE: FOR SECTION LOCATIONS REFER TO ARUP DRG No. 085710/31 ODX PROPOSED SERVICE CORRIDORS

Rev.	Date	Revision Details	Drn	Ver.	App.
03		CHAINAGE LOCATIONS ADDED TO SECTIONS	AP		
02		SECTIONS REVISED	AP		
01		ISSUED FOR REVIEW	AP		

Connell Wagner
 Connell Wagner Pty Ltd ABN 54 005 139 873 Telephone: +61 2 9465 5599
 116 Military Road (PO Box 538) Neutral Bay Facsimile: +61 2 9465 5598
 New South Wales 2089 Australia Email: cwsydt@connwag.com

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Client:

Project:

**OLYMPIC DAM EXPANSION
 275kV & 132kV TRANSMISSION
 LINE EASEMENT
 DAVENPORT TO OLYMPIC DAM
 SUBSTATION**

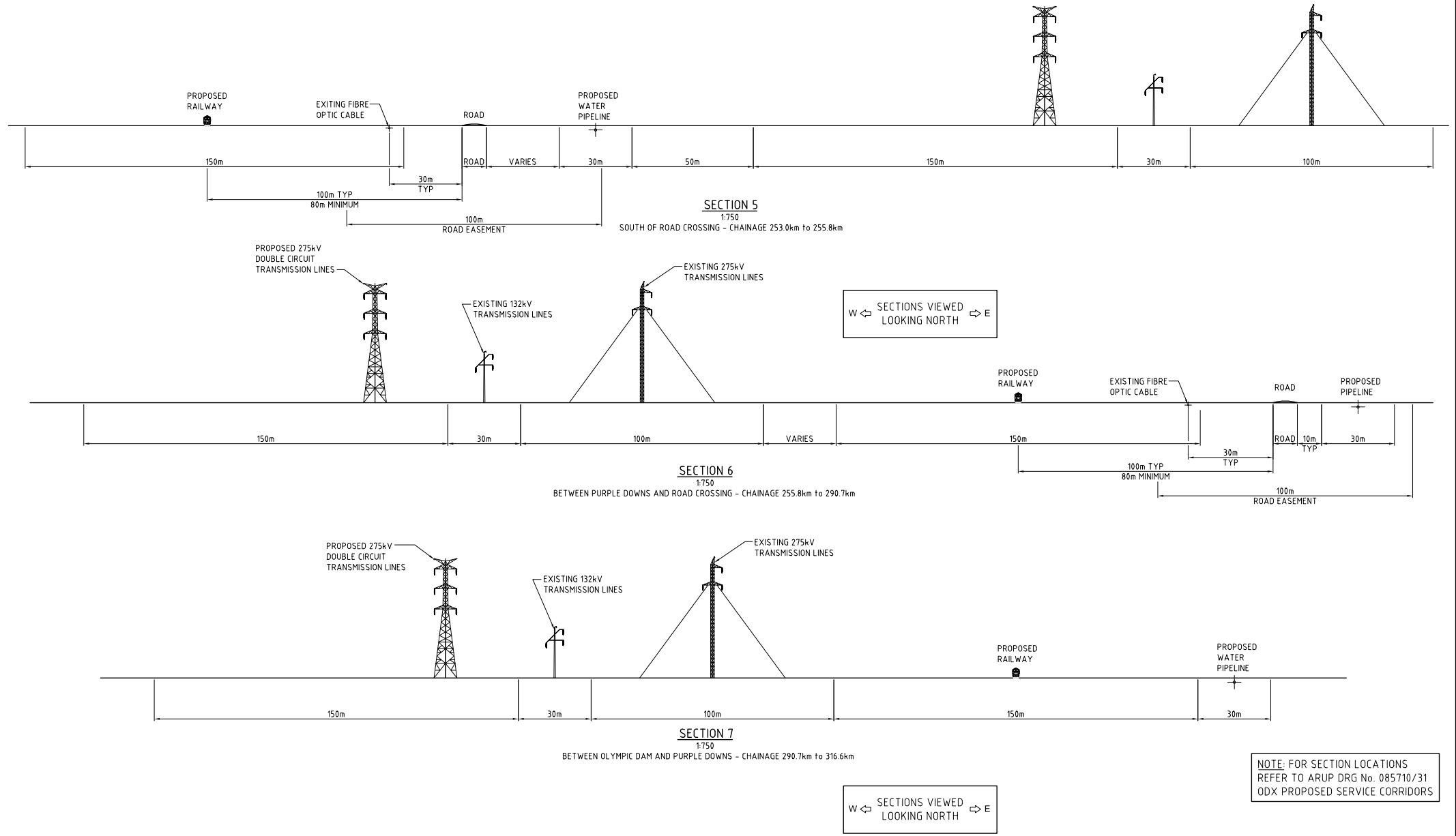
Drawn	Signed	Date
AP	Signed	
Designed	Signed	
TS	Signed	
Verified	Signed	
Approved	Signed	

Drawing Title:

**275kV & 132kV TRANSMISSION
 LINE AND EASEMENT LAYOUT**

PRELIMINARY NOT FOR CONSTRUCTION	
Project No.	22701
Scale	1:750
Sheet Size	A1
Drawing No.	EC031
Rev.	03

THIS DRAWING HAS BEEN REDUCED



W ← SECTIONS VIEWED LOOKING NORTH → E

NOTE: FOR SECTION LOCATIONS REFER TO ARUP DRG No. 085710/31 ODX PROPOSED SERVICE CORRIDORS

W ← SECTIONS VIEWED LOOKING NORTH → E

PRELIMINARY
NOT FOR CONSTRUCTION

03	CHAINAGE LOCATIONS ADDED TO SECTIONS	AP			
02	SECTIONS REVISED	AP			
01	ISSUED FOR REVIEW	AP			
Rev.	Date	Revision Details	Drn	Ver.	App.

Connell Wagner
Connell Wagner Pty Ltd ABN 54 005 139 873 Telephone: +61 2 9465 5599
 116 Military Road (PO Box 538) Neutral Bay Facsimile: +61 2 9465 5598
 New South Wales 2089 Australia Email: cwsyd@connwag.com

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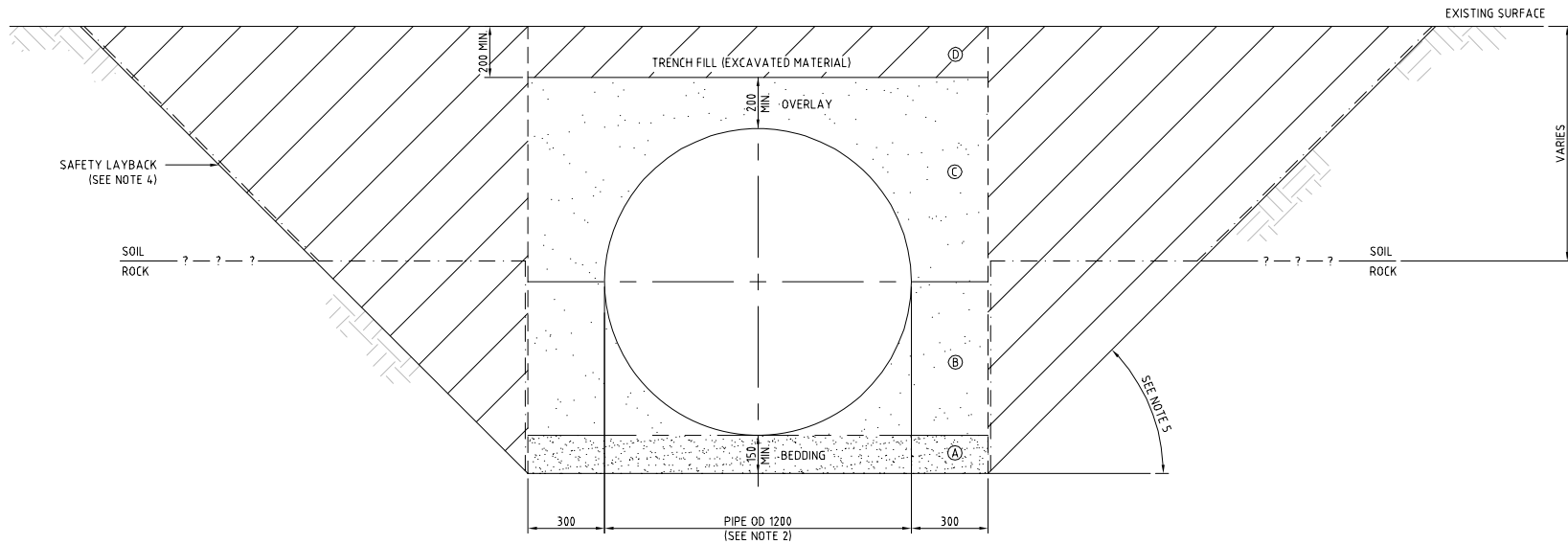
Client:

Project: OLYMPIC DAM EXPANSION
275kV & 132kV TRANSMISSION LINE EASEMENT LAYOUT
DAVENPORT TO OLYMPIC DAM SUBSTATION

Drawn	Signed	Date
AP	Signed	Date
Designed	Signed	Date
TS	Signed	Date
Verified	Signed	Date
Approved	Signed	Date

Drawing Title: 275kV & 132kV TRANSMISSION LINE AND EASEMENT LAYOUT

Project No.	22701
Scale	1:750
Sheet Size	A1
Drawing No.	EC032
Rev.	03



TRENCH CROSS SECTION
SCALE 1:10

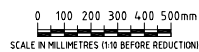
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A	NON COHESIVE MATERIAL OF NOMINAL SIZE $\lt; 13.2\text{mm}$ & LESS THAN 5% PASSING 75um	1 LAYER TO 60% DENSITY INDEX	BORROW PITS IMPORTED SAND DUNES (EXCAVATED)
B	EXCAVATED MATERIAL OF NOMINAL SIZE $\lt; 20\text{mm}$	COMPACTED IN 150mm LIFTS TO 90% SMDD	SCREENED EXCAVATED MATERIAL
C	EXCAVATED MATERIAL OF NOMINAL SIZE $\lt; 20\text{mm}$	COMPACTED IN 150mm LIFTS TO 90% SMDD	SCREENED EXCAVATED MATERIAL
D	EXCAVATED MATERIAL	COMPACTED IN 150mm LIFTS TO 85% SMDD	EXCAVATED MATERIAL

TRENCHING OPTIONS

- STANDARD TRENCH
- - - TRENCH
- · - · - BENCHED TRENCH

NOTES:-
 1. ALL DIMENSIONS ARE IN MILLIMETRES.
 2. TRENCH WIDTH:-
 CLEARANCE EITHER SIDE OF PIPE AT APPROX 0.25xOD (MIN TRENCH WIDTH).
 3. IN GENERAL ACCORDANCE WITH AS2566
 4. LAYBACK TO PREVENT COLLAPSE OF TRENCH SIDES.
 5. ANGLE TO BE EQUAL OR LESS THAN THE NATURAL ANGLE OF REPOSE OF SOIL.
 6. THIS DETAIL IS ONLY APPLICABLE FOR NORMAL TRENCH INSTALLATION.
 7. DURING CONSTRUCTION, DEDICATED CROSSINGS FOR CONSTRUCTION VEHICLES SHALL HAVE A MINIMUM COVER OF 700mm.

No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date
0	APPROVED ISSUE		LD	VC*	PW*	03.05.07

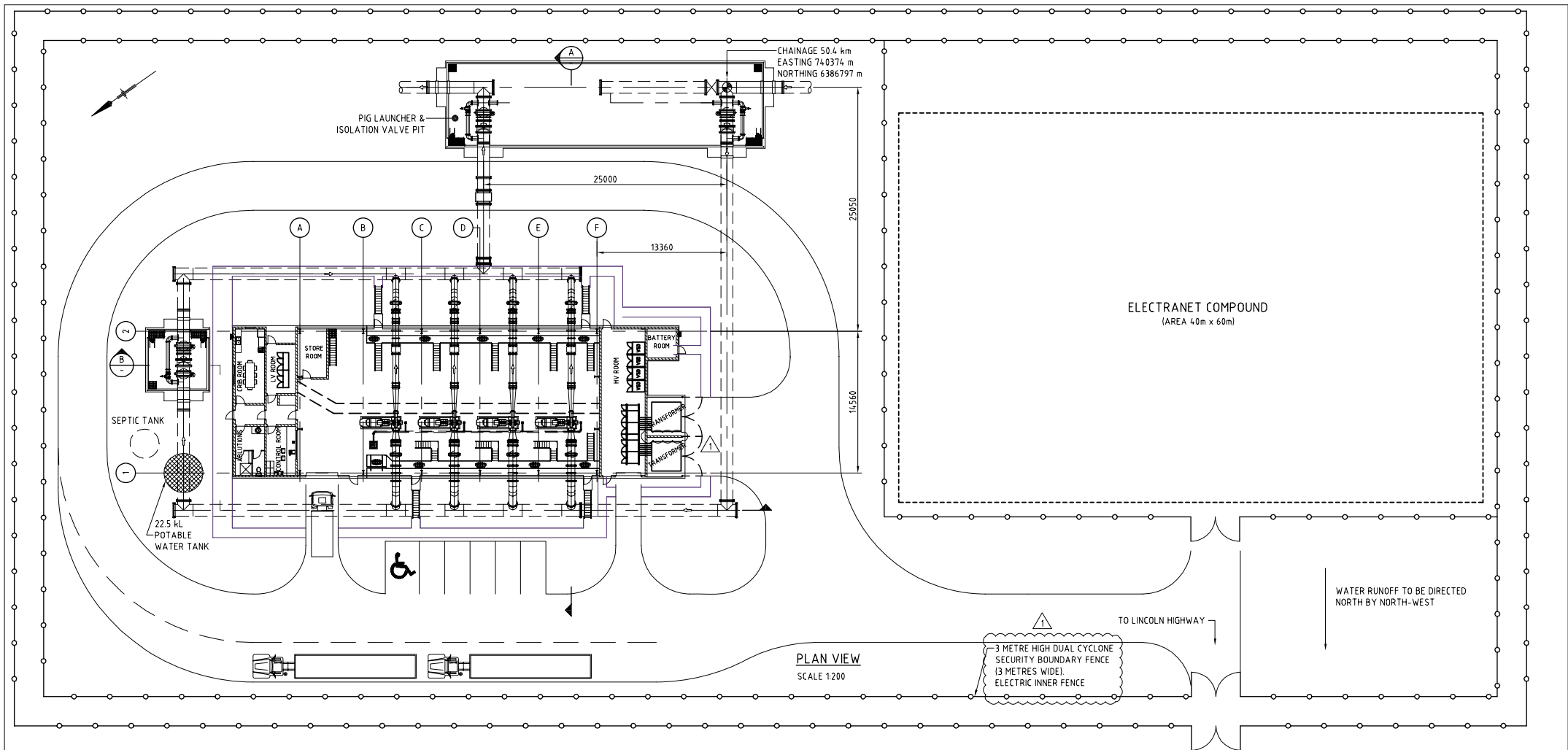


DO NOT SCALE

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Drawn	L. DEANE	Designed	L. HOBART
Drawing Check	C. PENDING*	Design Check	I. SHARP*
Approved	P. WALKEMEYER*		
Date	03.05.07		
Scale	AS SHOWN	This Drawing must not be used for construction unless signed as Approved	

Project	OLYMPIC DAM EXPANSION - PRE-FEASIBILITY		
CoA			
Desc.	PRIMARY WATER SUPPLY SYSTEM		
Desc.	TRANSFER SYSTEM		
Type	BELOW GROUND PIPE CONSTRUCTION DETAIL		
Original Size	A1	Drawing No:	ODP3672-D0-0013
Rev:			0



PLAN VIEW
SCALE 1:200

ELECTRANET COMPOUND
(AREA 40m x 60m)

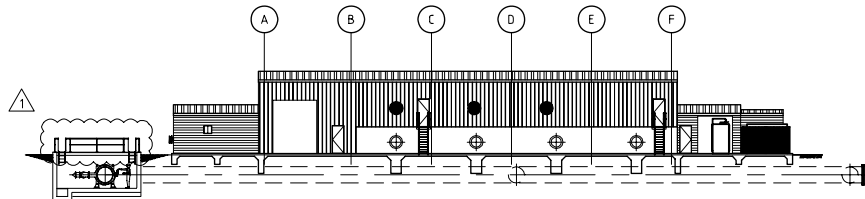
WATER RUNOFF TO BE DIRECTED
NORTH BY NORTH-WEST

3 METRE HIGH DUAL CYCLONE
SECURITY BOUNDARY FENCE
13 METRES WIDE
ELECTRIC INNER FENCE

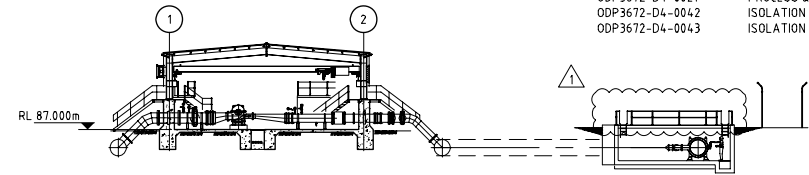
TO LINCOLN HIGHWAY

REFERENCE DRAWINGS

- ODP3672-D4-0047 PUMP STATION - GENERAL LAYOUT
- ODP3672-D4-0021 PROCESS & INSTRUMENTATION DIAGRAM
- ODP3672-D4-0042 ISOLATION & BYPASS VALVES (ABOVE GROUND)
- ODP3672-D4-0043 ISOLATION & BYPASS VALVES (BELOW GROUND)

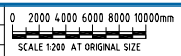


B SECTION
SCALE 1:200



A SECTION
SCALE 1:200

No	Revision	Note	Drawn	Checked	Approved	Date
1	PIT FENCE REMOVED, T/F BLAST WALL & FENCE NOTE ADDED.	CP	RB*	PW*		30.05.07
0	APPROVED ISSUE	CP	RB*	PW*		03.05.07

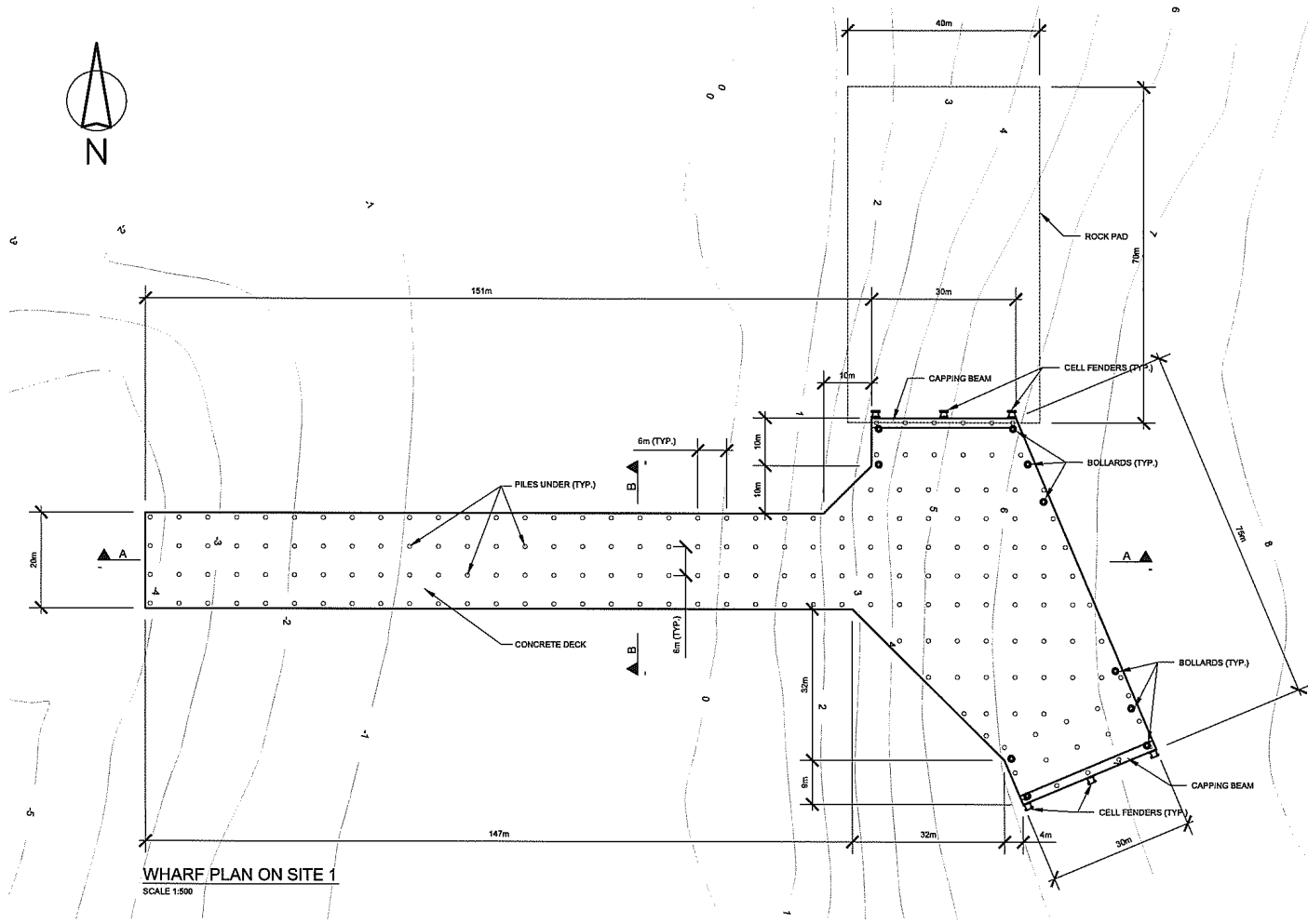


DO NOT SCALE

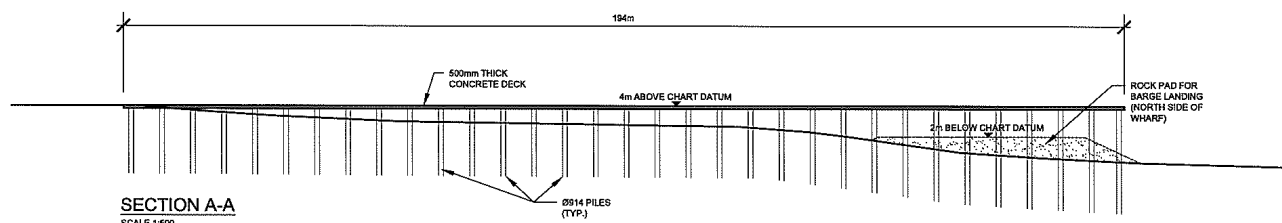
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Drawn	C PENDINGI	Designed	R BOAS
Drafting Check	G WIGGINS*	Design Check	A WILKINSON*
Approved	P WALKEMEYER*	Date	23.05.07
Scale	AS SHOWN	This Drawing must not be used for construction unless signed as Approved	

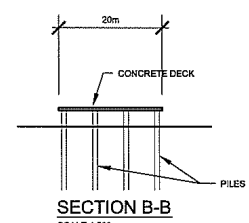
Project	OLYMPIC DAM EXPANSION - PRE-FEASIBILITY STUDY
CoA	
Desc.	PRIMARY WATER SUPPLY SYSTEM
Desc.	TRANSFER SYSTEM - PUMP STATION 7B
Type	GENERAL ARRANGEMENT & SITE PLAN
Original Size	A1
Drawing No:	ODP3672-D4-0039
Rev:	1



WHARF PLAN ON SITE 1
SCALE 1:500



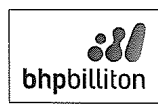
SECTION A-A
SCALE 1:500



SECTION B-B
SCALE 1:500

NOTE:
1. LEVELS ON THIS DRAWING ARE RELATIVE TO CHART DATUM (CD).
2. CHART DATUM IS 2m BELOW AUSTRALIAN HEIGHT DATUM (AHD).

P1	23/11/07	PRW	HLW	-
Preliminary Issue				
Issue	Date	By	Chd	Appd



Job Title
OLYMPIC DAM EXPANSION PROJECT MODULARISATION STUDY 15m HAUL CORRIDOR

Scale at A1
1:500

Discipline



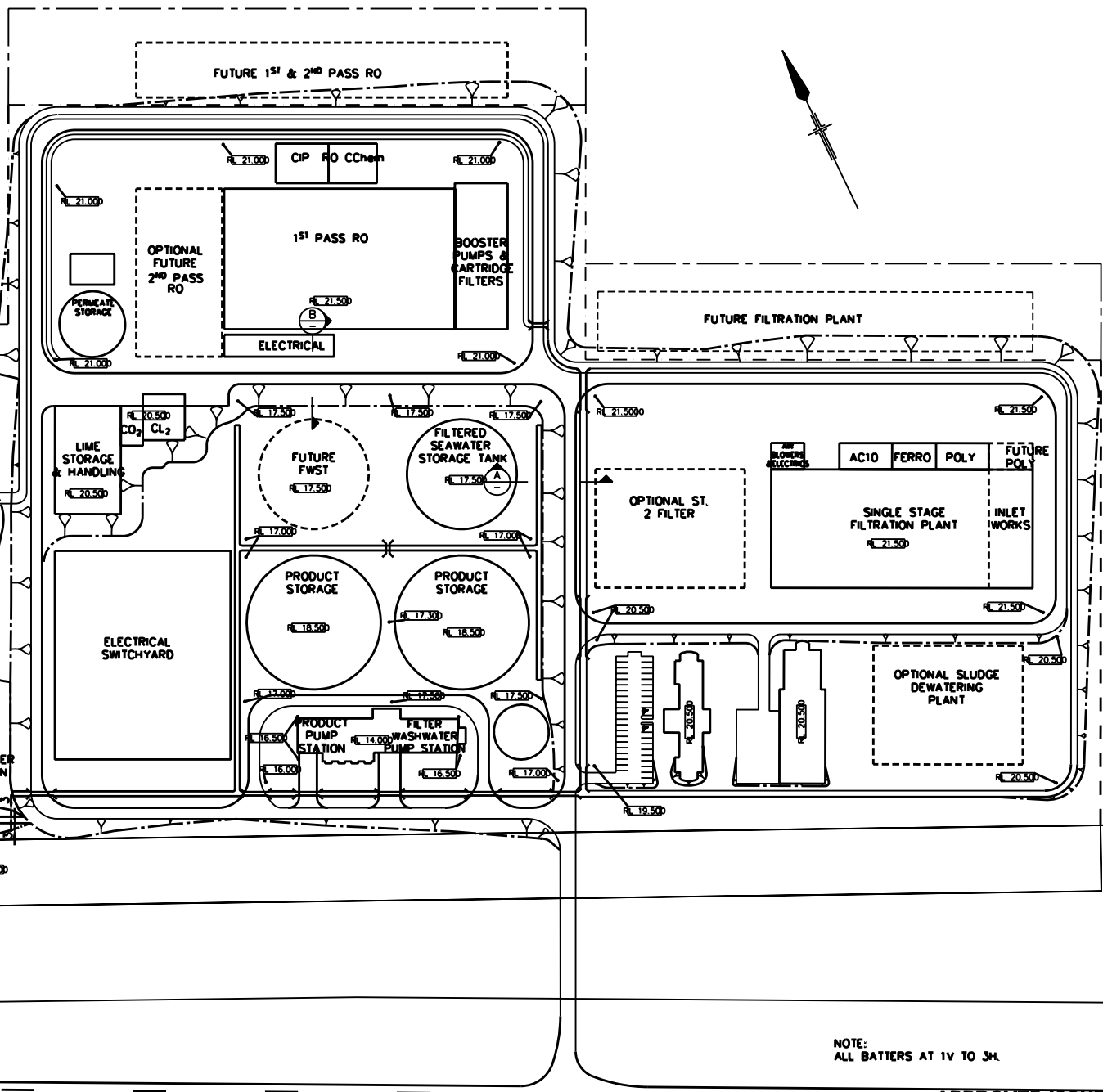
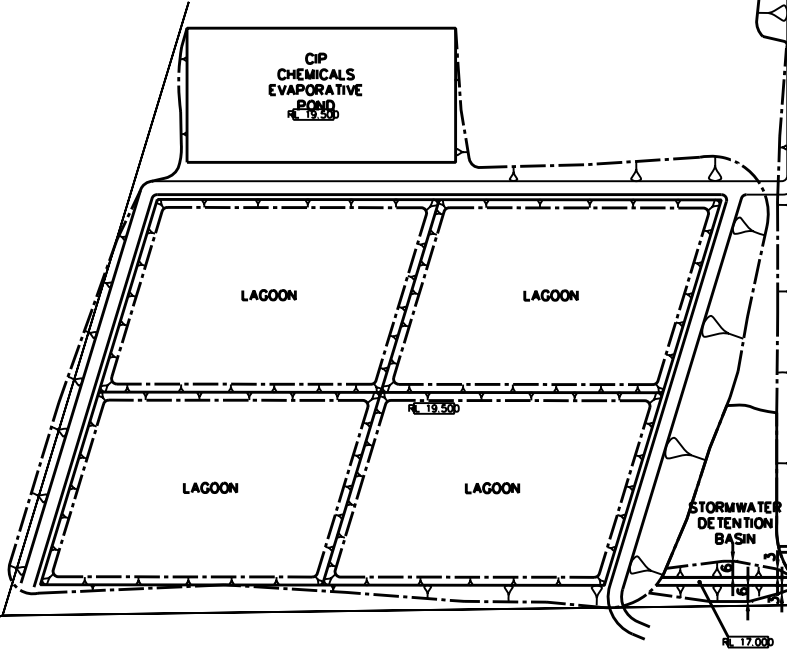
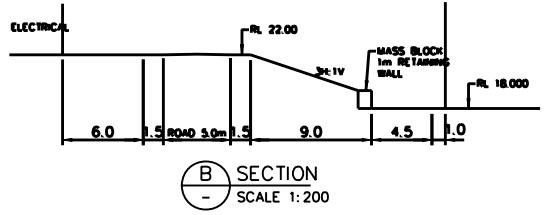
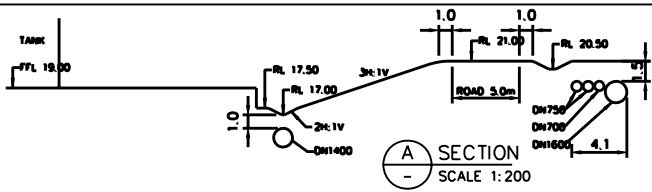
Drawing Title
15m HAUL CORRIDOR PT. AUGUSTA OFFLOADING WHARF SITE 1 - PLAN AND SECTIONS

Drawing Status
Preliminary

Job No
86468/40

Drawing No
C306

Issue
P1



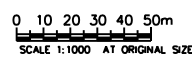
NOTE:
ALL BATTERS AT 1V TO 3H.

APPROVED ISSUE

Plot Date: 18 February 2007 - 3:04 PM
 Cwd File No: G:\331\370803_CAD\6801\Drawings\Package 1\ODP3672-D0-0002.dwg

No	Revision	Note	Drawn	Checked	Approved	Date
0	APPROVED ISSUE		ES	MG*	PW*	07.05.07

Note: * Indicates signatures on original issue of drawing or last revision of drawing



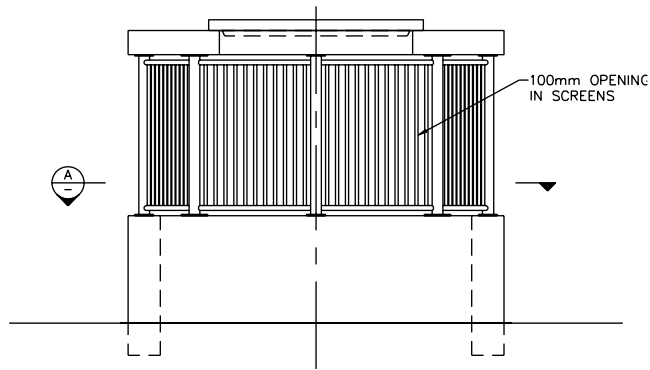
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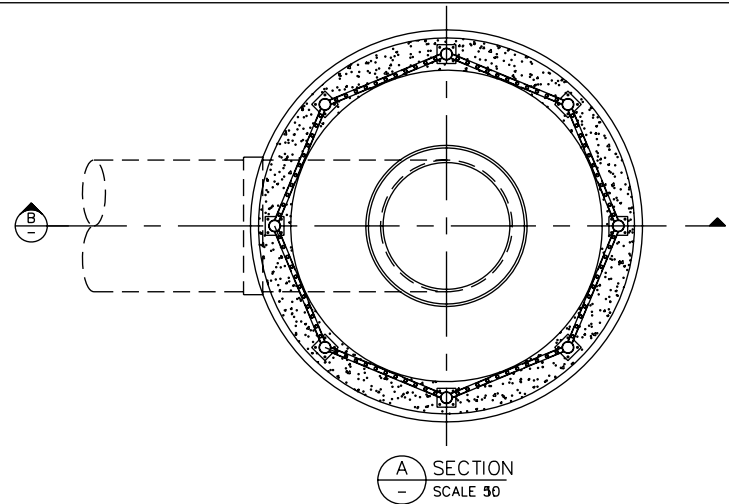
Drawn	E. SOWULA	Designed	M. GREEN
Drafting	T. BEUMER*	Design	M. GREEN*
Check		Check	
Approved	P. WALKEMEYER*		
Date	07.05.07		
Scale	AS SHOWN		

Project	OLYMPIC DAM EXPANSION - PRE-FEASIBILITY STUDY
Client	PRIMARY WATER SUPPLY SYSTEM
Disc.	SEAWATER DESALINATION PLANT - SITE INFRASTRUCTURE
Disc.	SITE EARTHWORKS
Type	
Original Size	A1
Drawing No:	ODP3672-D0-0002
Rev:	0

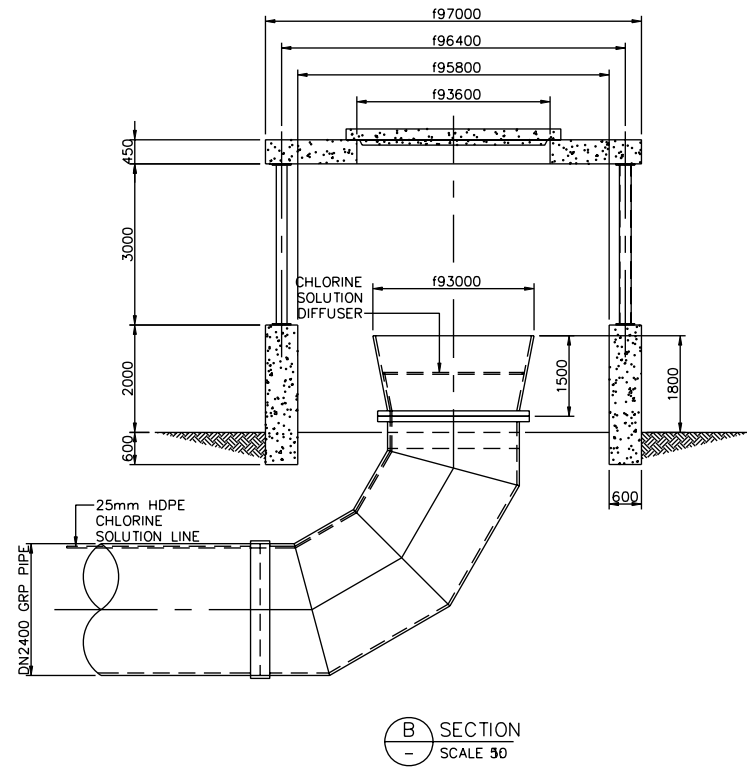
This Drawing must not be used for Construction unless signed as Approved



ELEVATION
SCALE 1:50



A SECTION
SCALE 50

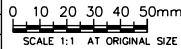


B SECTION
SCALE 50

APPROVED ISSUE

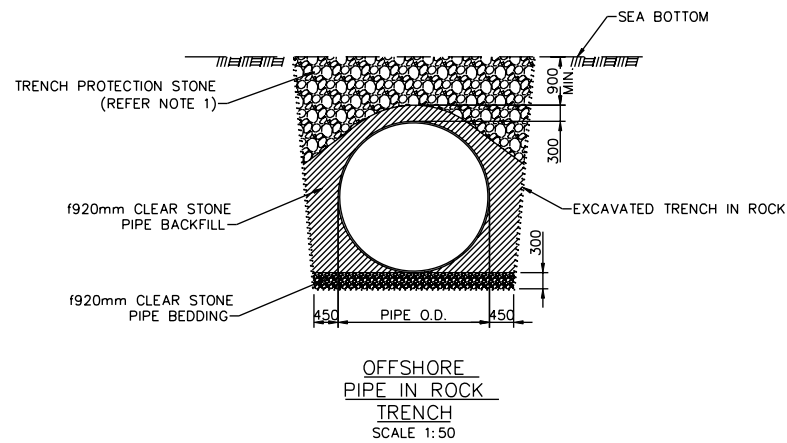
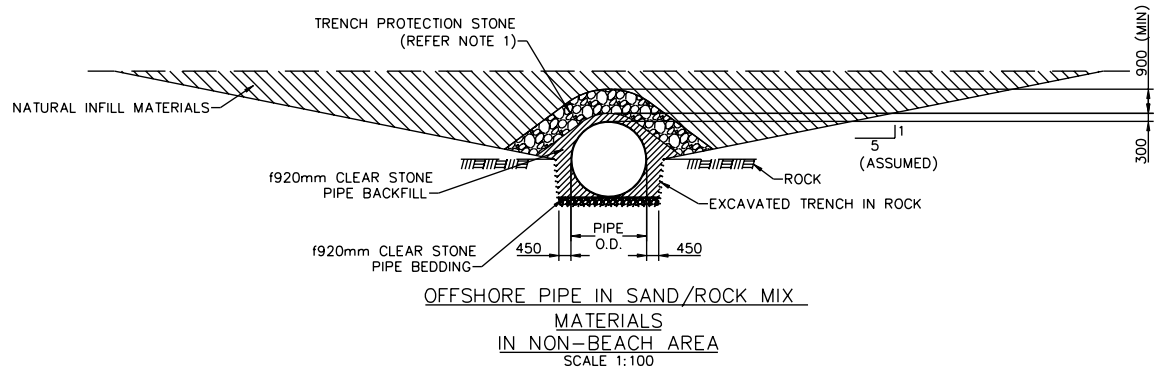
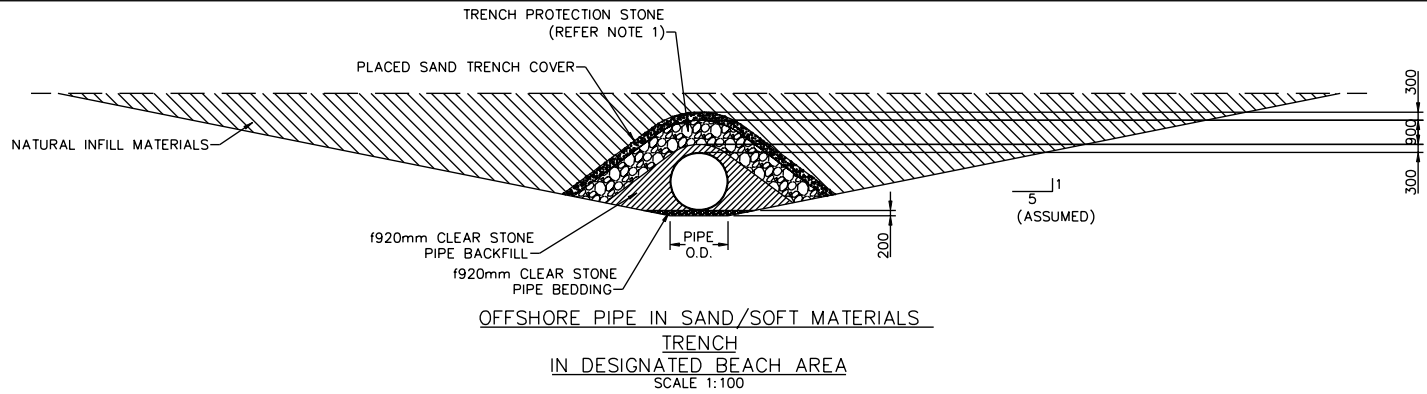
Plot Date: 19 February 2007 - 3:04 PM Cad File No: G:\331\1778802_CAD\03.01 Drawings\Package 1\ODP3672-D0-0022.dwg

No	Revision	Note	Drawn	Checked	Approved	Date
1	ADDED SCREEN NOTE		TJB	MG*	PW*	01.06.07
0	APPROVED ISSUE		CP	MG*	PW*	08.05.07



DO NOT SCALE	Drawn G WIGGINS	Designed S McKELVIE
<small>Conditions of Use: This document may only be used by GHD's client (and any other person who GHD has signed can use this document) for the purpose for which it was prepared and must not be used by any other person or for any other purpose.</small>	Drafting B. MULLAN*	Design M. GREEN*
	Check P. WALKEMEYER*	
	Date 08.05.07	
Scale AS SHOWN	<small>This Drawing must not be used for Construction unless signed as Approved</small>	

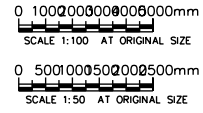
Project	OLYMPIC DAM EXPANSION - PRE-FEASIBILITY STUDY
CoA	
Desc.	PRIMARY WATER SUPPLY SYSTEM
Desc.	SEAWATER DESALINATION PLANT - INTAKE STRUCTURE
Type	GENERAL ARRANGEMENT
Original Size	A1
Drawing No:	ODP3672-D0-0022
Rev:	1



NOTE:
1. TRENCH PROTECTION STONE
WILL BE 200mm CRUSHED
STONE

APPROVED ISSUE

Plot Date: 19 February 2007 - 3:04 PM	Cad File No: G:\331\17788023_CAD\03.01 Drawings\Package 1\ODP3672-D4-0004.dwg					
0	APPROVED ISSUE	TJB	MG*	PW*	08.05.07	
No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date

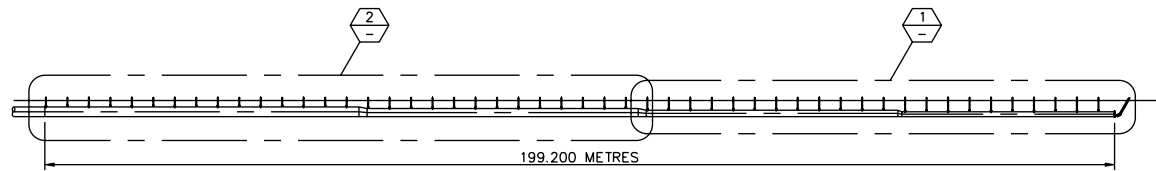


DO NOT SCALE

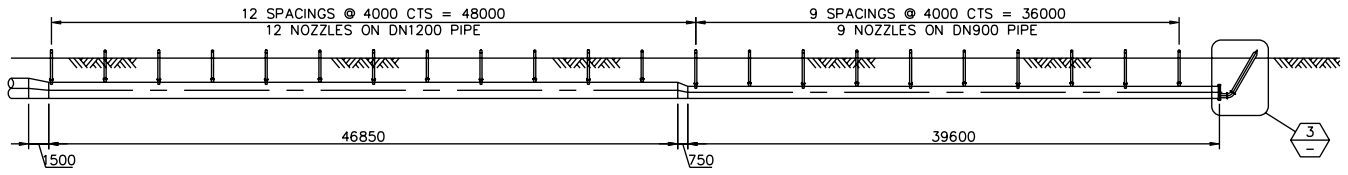
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Drawn	T. BEUMER	Designed	S. McKELVIE
Drafting	B. MULLAN*	Design	M. GREEN*
Check		Check	
Approved	P. WALKEMEYER*	Date	08.05.07
Scale	AS SHOWN	This Drawing must not be used for Construction unless signed as Approved	

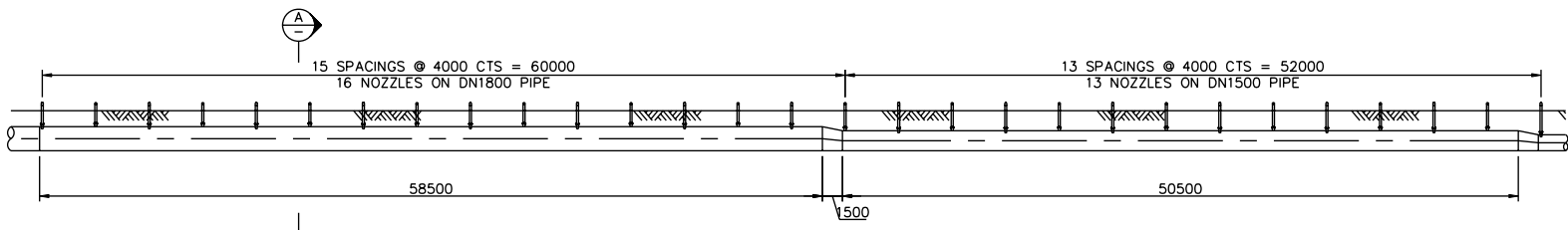
Project	OLYMPIC DAM EXPANSION - PRE-FEASIBILITY STUDY
CoA	
Desc.	PRIMARY WATER SUPPLY SYSTEM
Desc.	SEAWATER DESALINATION PLANT - SEAWATER INTAKE PIPELINES
Type	TYPICAL SECTIONS
Original Size	A1
Drawing No:	ODP3672-D4-0004
Rev:	0



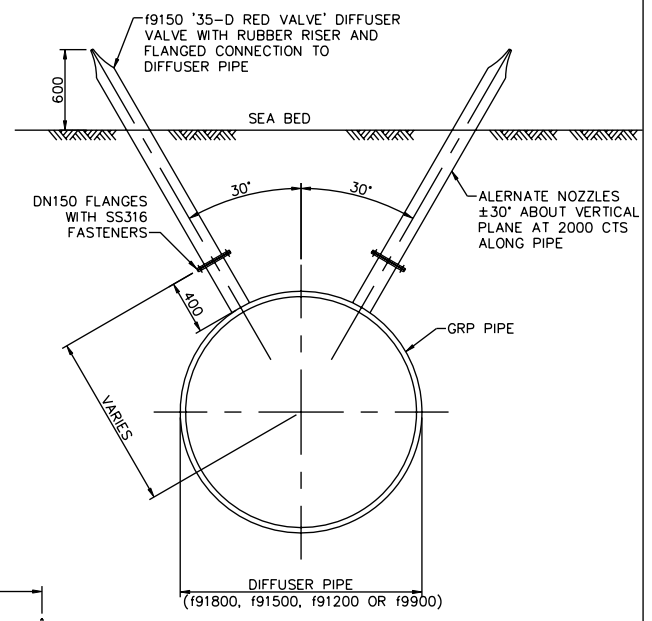
GENERAL ARRANGEMENT OF
DIFFUSER PIPE
SCALE 1:500



1 DETAIL
SCALE 200

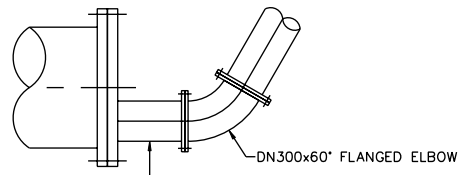
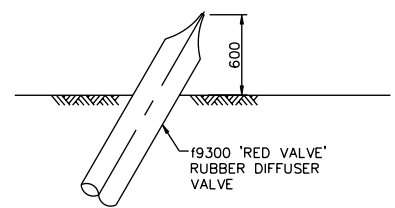


2 DETAIL
SCALE 200

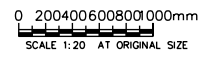


A SECTION
SCALE 20

TYPICAL NOZZLE LAYOUT &
CONNECTION TO DIFFUSER PIPE

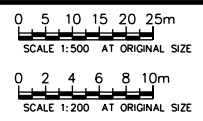


3 DETAIL
SCALE 20



Plot Date: 19 February 2007 - 3:04 PM Cad File No: G:\331\1788023_CAD\03.01 Drawings\Package 1\ODP3672-D0-0023.dwg

No	Revision	Note: * Indicates alterations on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date
1	REVISED NOZZLE SPACING FROM 2000 CNTRS TO 4000 CNTRS		TJB	MG*	PW*	01.06.07
0	APPROVED ISSUE		CP	MG*	PW*	08.05.07

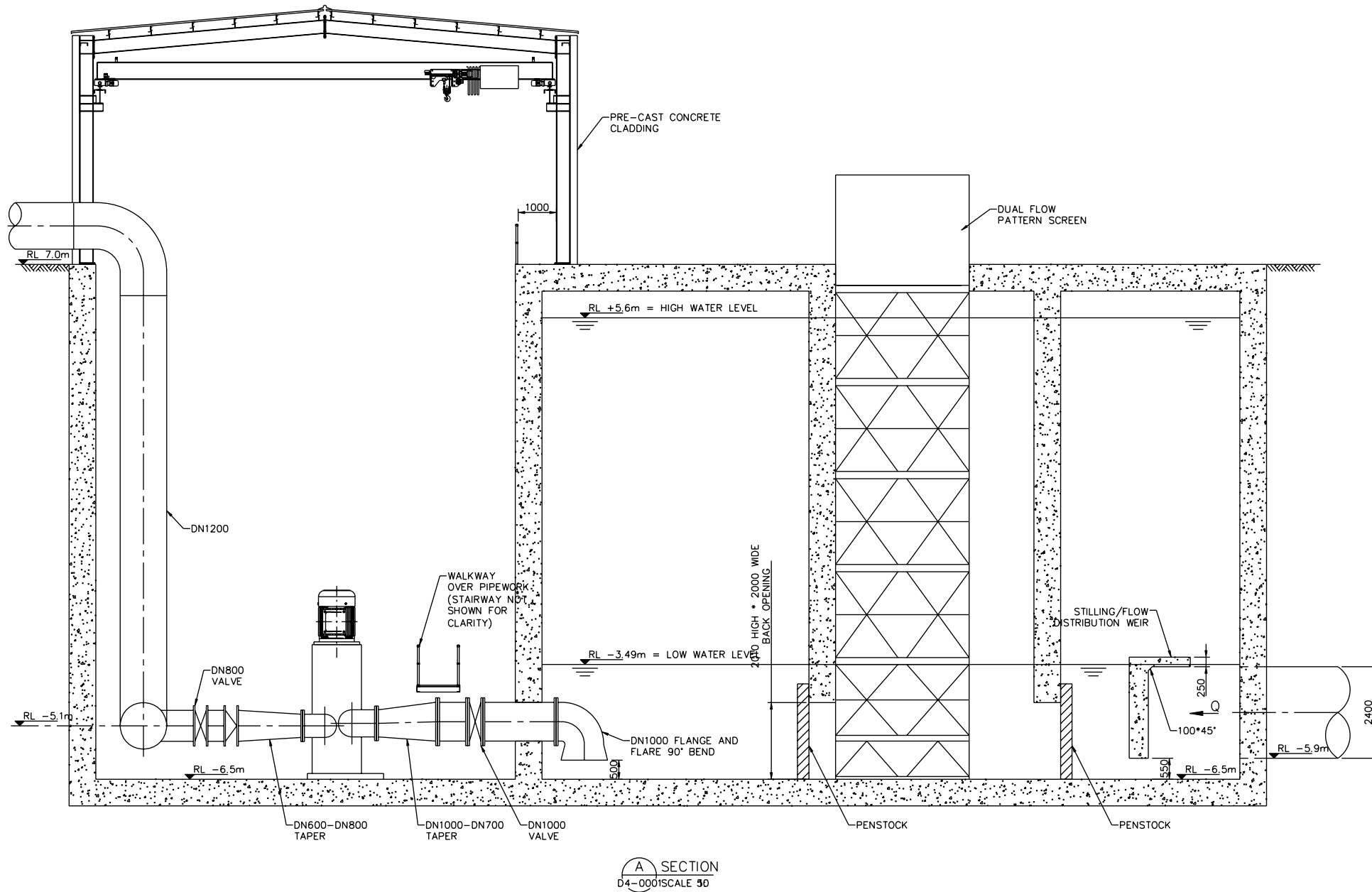


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Drawn	C PENDINI	Designed	S McKELVIE
Drafting	B. MULLAN*	Design	M. GREEN*
Check		Check	
Approved	P. WALKEMEYER*		
Date	08.05.07		
Scale	AS SHOWN		

Project	OLYMPIC DAM EXPANSION - PRE-FEASIBILITY STUDY
CoA	
Desc.	PRIMARY WATER SUPPLY SYSTEM
Desc.	SEAWATER DESALINATION PLANT - OUTFALL PIPELINE DIFFUSER
Type	GENERAL ARRANGEMENT
Original Size	A1
Drawing No:	ODP3672-D0-0023
Rev:	1

APPROVED ISSUE

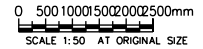


A SECTION
D4-0001 SCALE 50

APPROVED ISSUE

Plot Date: 19 February 2007 - 3:04 PM
 Cad File No: Q:\331\178802_CAD\03.01 Drawings\Package 1\ODP3672-D4-0002.dwg

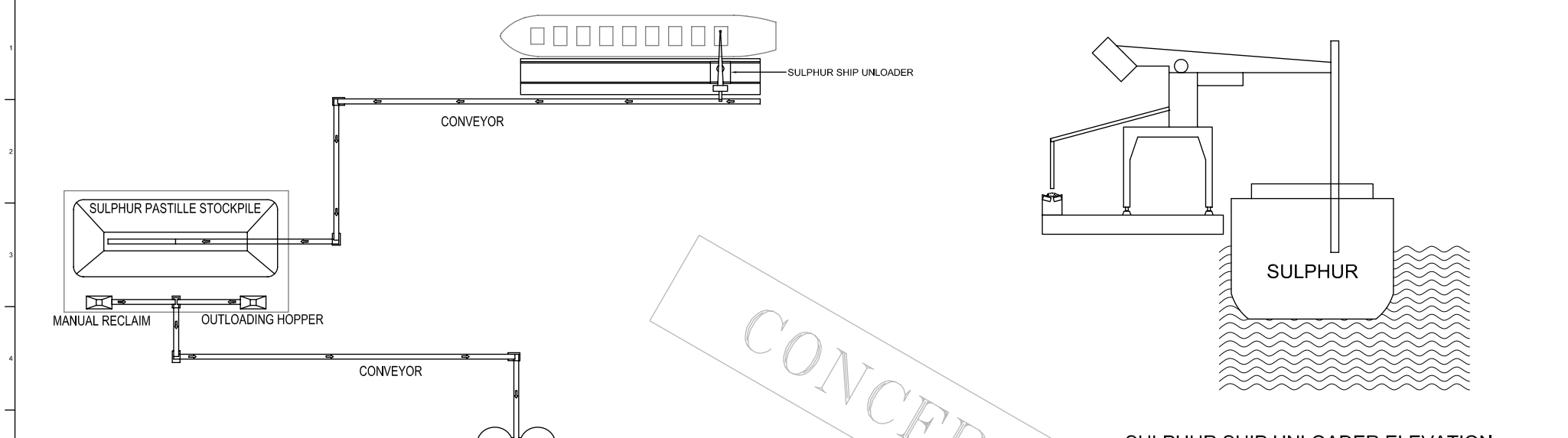
0	APPROVED ISSUE	TJB	MG*	PW*	08.05.07	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date



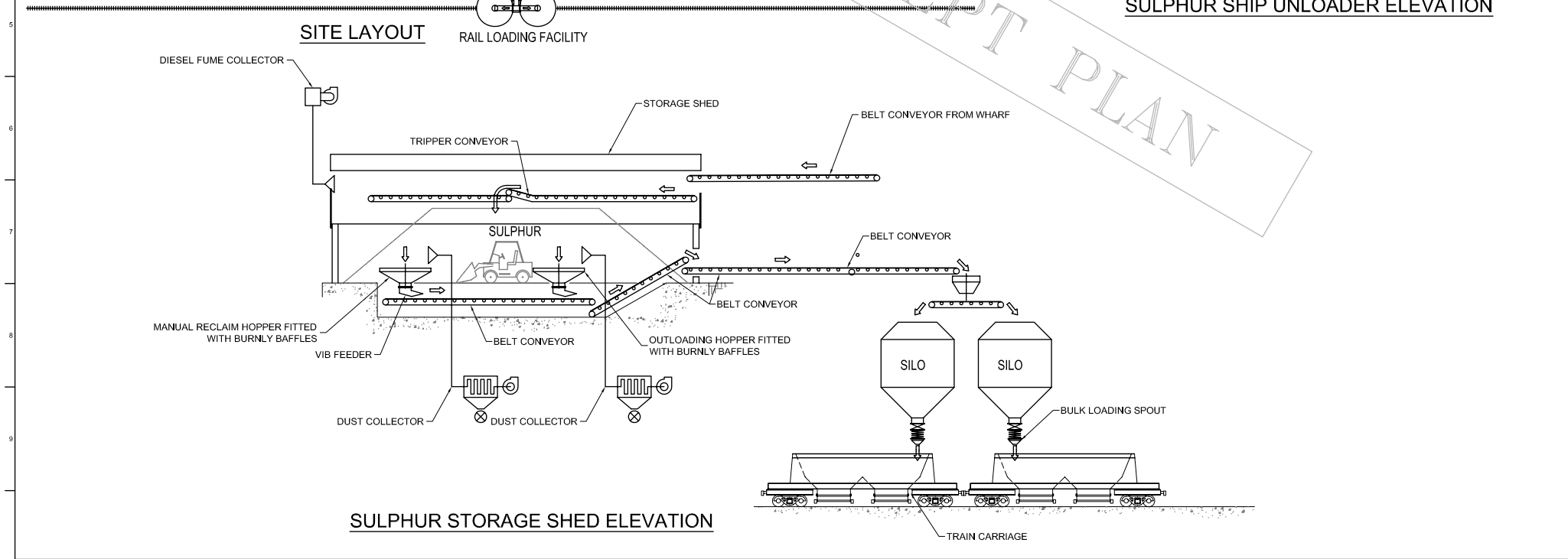
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Drawn	T. BEUMER	Designed	S. McKELVIE
Drafting	B. MULLAN*	Design	M. GREEN*
Check		Check	
Approved	P. WALKEMEYER*		
Date	08.05.07		
Scale	1:50		

Project	OLYMPIC DAM EXPANSION - PRE-FEASIBILITY STUDY
CoA	
Desc.	PRIMARY WATER SUPPLY SYSTEM
Desc.	SEAWATER DESALINATION PLANT - SEAWATER PUMP STATION AND
Type	SCREENING PLANT - SECTION ELEVATION
Original Size	A1
Drawing No:	ODP3672-D4-0002
Rev:	0



SULPHUR SHIP UNLOADER ELEVATION



SULPHUR STORAGE SHED ELEVATION

CONCEPT PLAN

B	21/09/06	G.P.	M.L.S.	H.W.
REFERENCES AND LABELS REVISED				
A	19/09/06	G.P.	M.L.S.	H.W.
ORRIGINAL ISSUE				
Issue	Date	By	Chkd	Appd

Client:
BHP BILLITON

Job Title:
INTERGRATED LOGISTICS STUDY

Scale at A1: N.T.S.

Plot ID:

ARUP

Level 17, 1 Melbourne Street
Melbourne, Victoria 3000
Tel +61 (0)3 9668 5500 Fax +61 (0)3 9668 1546
www.arup.com

One Way Pty Ltd
A/CN 18 000 066 800

Drawing Title:
**PROCESS FLOW DIAGRAM
BULK SULPHUR SHIP UNLOAD,
STORAGE & RAIL LOADING**

Drawing Status:
CONCEPT PLAN

Job No:
085397

Drawing No:
P - 801

Issue:
B