

BREAKLINE - REFER TO DRAWING DA31 FOR CONTINUATION



LEGEND

LEVELS DATUM IS AHD.

--- EXISTING CONTOUR

--- B.E.L. CONTOUR (MAJOR 1.00m)

--- B.E.L. CONTOUR (MINOR 0.25m)

NOMINATED B.E.L. DETAIL
N.T.S.

PAVEMENT FFL
PAVEMENT
BASE/SUBBASE
COURSES
SUBGRADE

DEPTH OF PAVEMENT REFER TO STRUCTURAL PLANS FOR DETAILS.

NOMINATED B.E. LEVEL

NOTE

REFER TO DRAWING DA10 FOR SITE PREPARATION NOTES.
REFER TO DRAWING DA32 FOR EARTHWORKS VOLUMES.

FOR DEVELOPMENT APPLICATION

FOR DEVELOPMENT APPLICATION	08.06.12	B
FOR INFORMATION	07.06.12	A
AMENDMENTS	DATE	ISSUE

CLIENT

NSW Western Sydney Parklands Trust
WESTERN SYDNEY PARKLANDS TRUST
LEVEL 4, 10 VALENTINE AVE
PARRAMATTA NSW 2150

PROJECT

HORSELEY DV. BUSINESS PARK
CNR THE HORSELEY DV. & COWPASTURE RD
WETHERILL PARK, NSW

DESIGNED (P/NAME)	DATE	CHECKED	SIZE	SCALE	CAD REF.
M.W.	02/04/12	AT	AS SHOWN		C011492.00-DA 32

Costin Roe Consulting Pty Ltd.
Consulting Engineers and Surveyors
Level 1, 8 Miranda Street
Miranda NSW 2225
Tel: (02) 952 2900 Fax: (02) 9241 3781
email: mir@costinroe.com.au

Value in Engineering and Management

Costin Roe Consulting

DRAWING TITLE

BULK EARTHWORKS PLAN SHEET 2

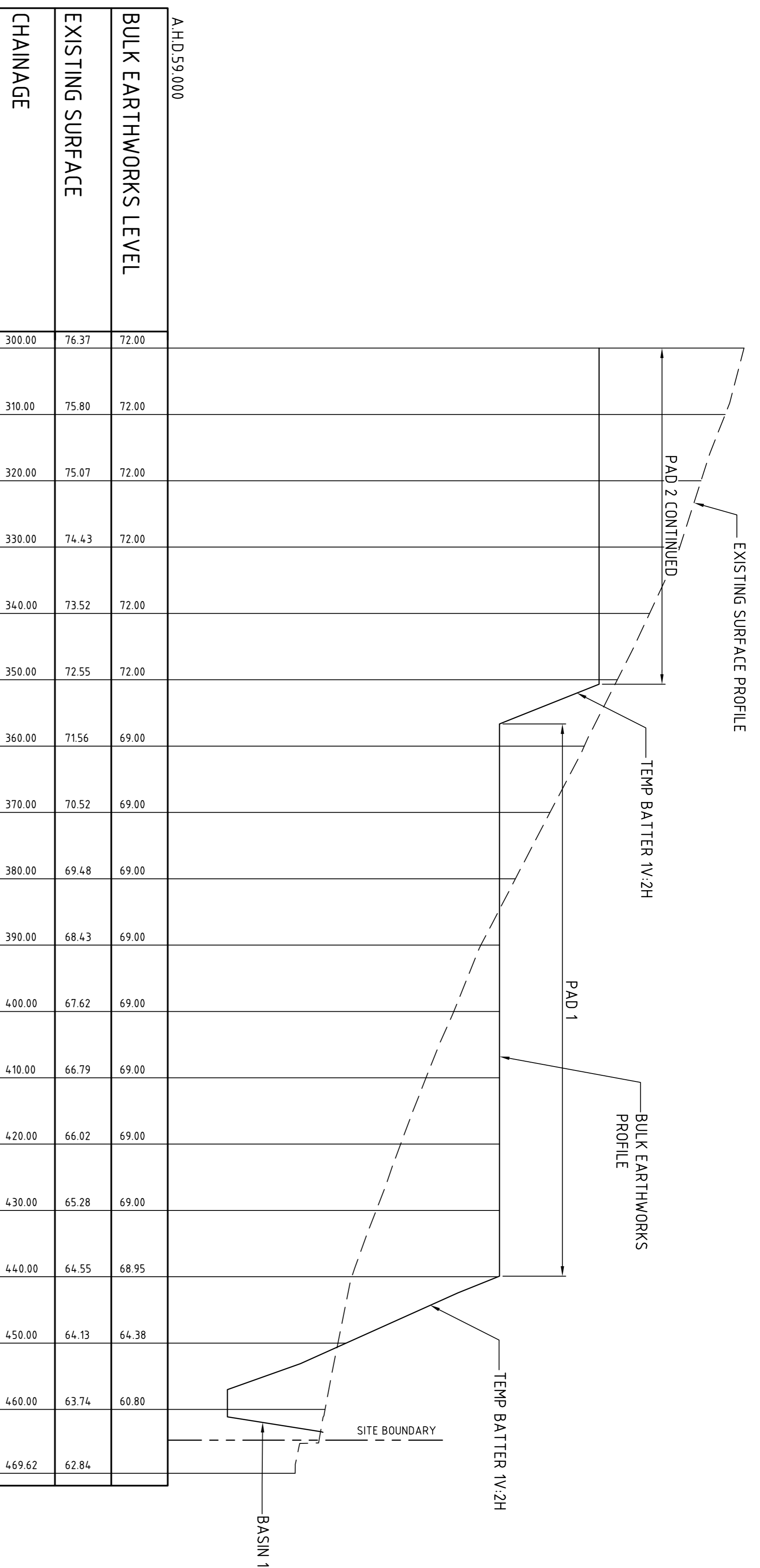
DRAWING No: C011492.00-DA32

ISSUE: B

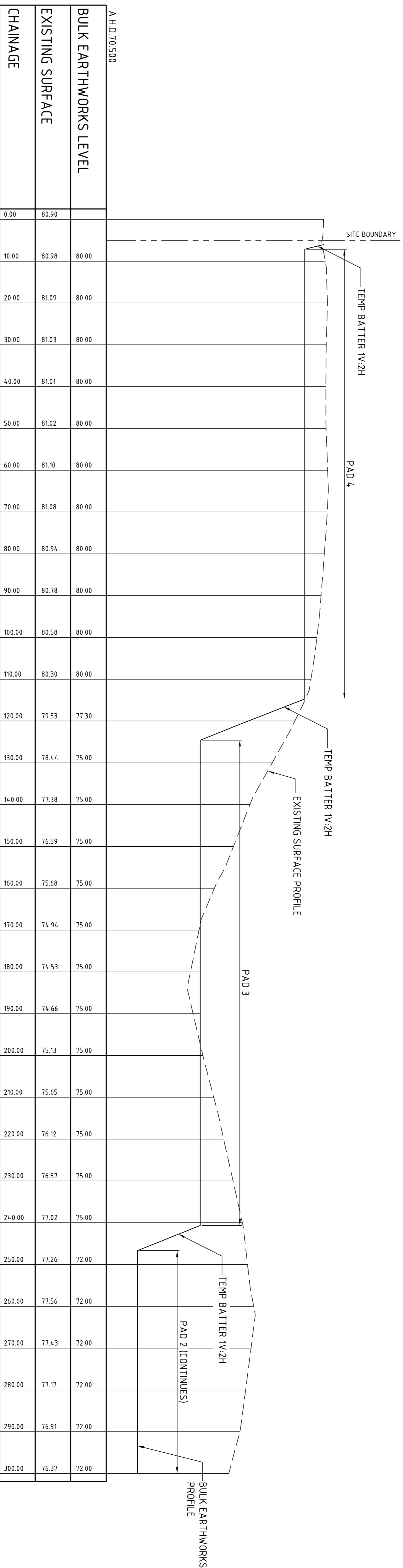
BULK EARTHWORKS PLAN-SHEET 2

SCALE 1:750





CROSS SECTION 1
SCALE 1:500 HORIZONTAL.
SCALE 1:100 VERTICAL.



CROSS SECTION 1
SCALE 1:500 HORIZONTAL.
SCALE 1:100 VERTICAL.

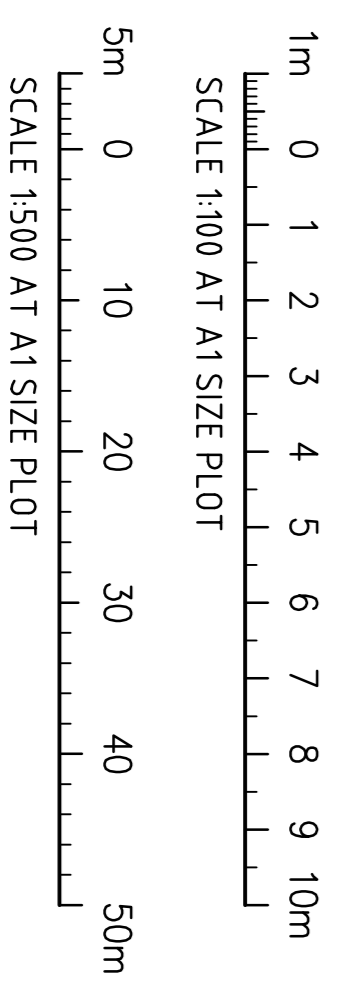
FOR DEVELOPMENT APPLICATION

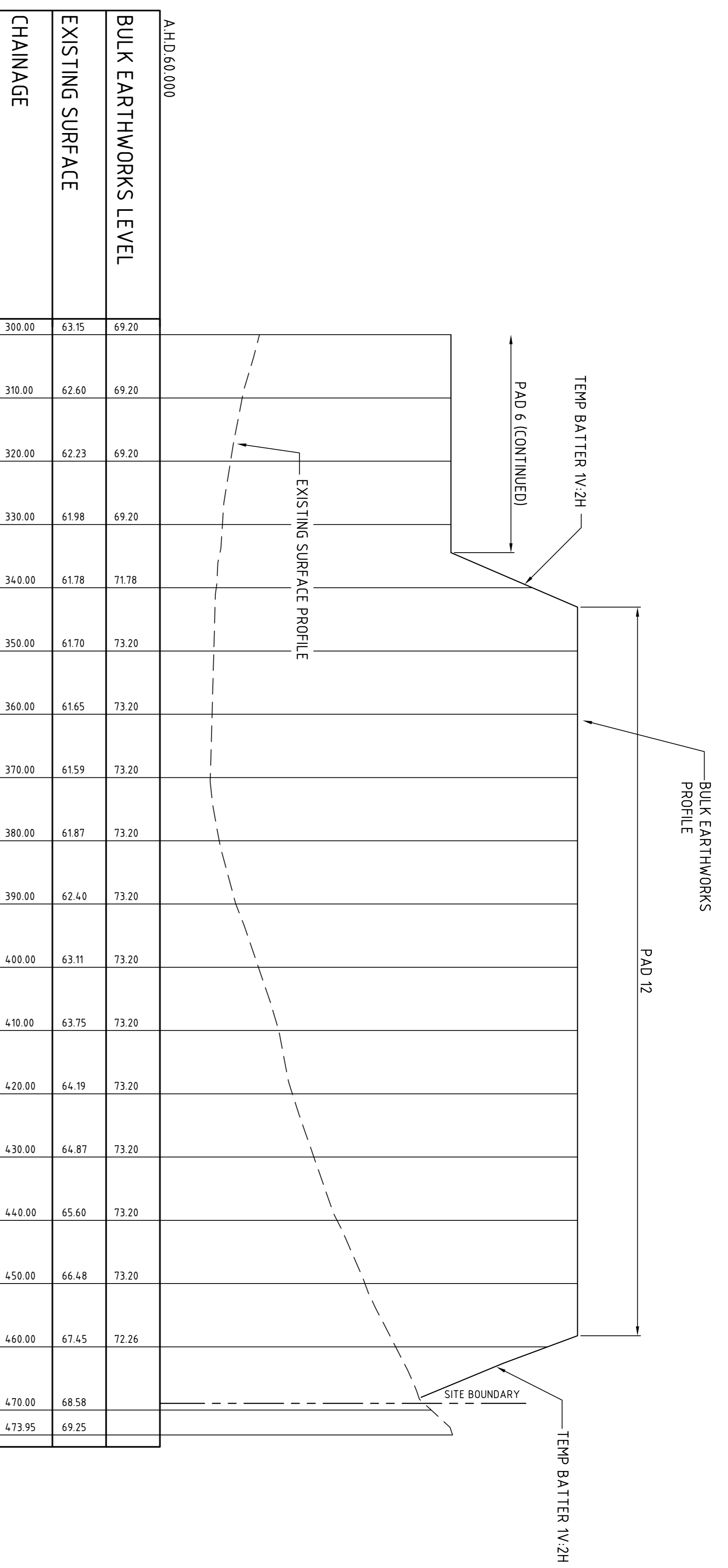
FOR DEVELOPMENT APPLICATION	08.06.12	B								
FOR INFORMATION	07.06.12	A								
AMENDMENTS	DATE	ISSUE	AMENDMENTS	DATE	ISSUE					

CLIENT	PROJECT	DESIGNED (P/AMN)	DATE	CHECKED	SCALE	CAD REF.
NSW Western Sydney Parklands Trust WESTERN SYDNEY PARKLANDS TRUST LEVEL 4, 10 VALENTINE AVE PARRAMATTA NSW 2150	HORSLEY DV. BUSINESS PARK CNR THE HORSELEY DV. & COMPASTURE RD WETHERILL PARK, NSW	M.W.	02.04.12	AT	AS SHOWN	C011492.00-DA 33

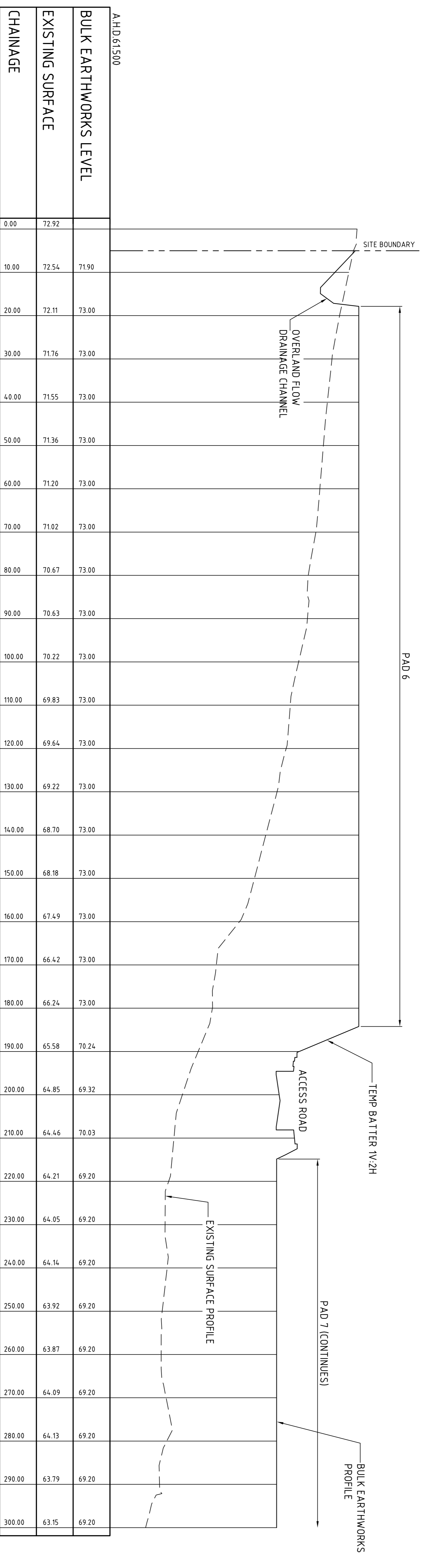
COSTIN ROE CONSULTING PTY LTD. Level 1, 8 Miranda Street Miranda NSW 2228 Tel: (02) 852 7800 Fax: (02) 8241 3781 email: mmi@costinroe.com.au	Value in Engineering and Management
--	-------------------------------------

DRAWING TITLE	ISSUE
BULK EARTHWORKS SECTIONS SHEET 1	B
DRAWING No	C011492.00-DA33





CROSS SECTION **3**
 SCALE 1:500 HORIZONTAL. (C32)
 SCALE 1:100 VERTICAL.



CROSS SECTION **3**
 SCALE 1:500 HORIZONTAL. (C32)
 SCALE 1:100 VERTICAL.

FOR DEVELOPMENT APPLICATION

FOR DEVELOPMENT APPLICATION	08.06.12	B
FOR INFORMATION	07.06.12	A
AMENDMENTS	DATE	ISSUE

CLIENT

WESTERN SYDNEY PARKLANDS TRUST
 LEVEL 4, 10 VALENTINE AVE
 PARRAMATTA, NSW, 2150

PROJECT

HORSLEY DV. BUSINESS PARK
 CNR THE HORSELEY DV. & COMPASTURE RD
 WETHERILL PARK, NSW

ACEA

Costin Roe Consulting Pty Ltd.
 Consulting Engineers
 Level 1, 8 Miranda Street
 Miranda NSW 2228
 Tel: (02) 852 7800 Fax: (02) 8241-3781
 email: mail@costinroe.com.au

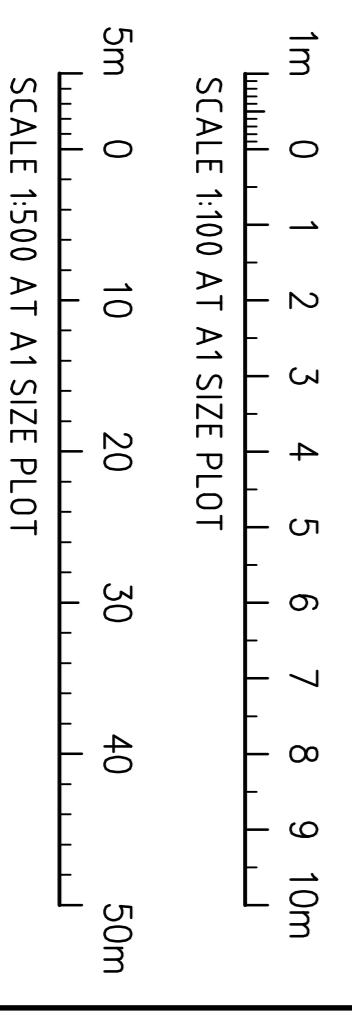
Value in Engineering and Management

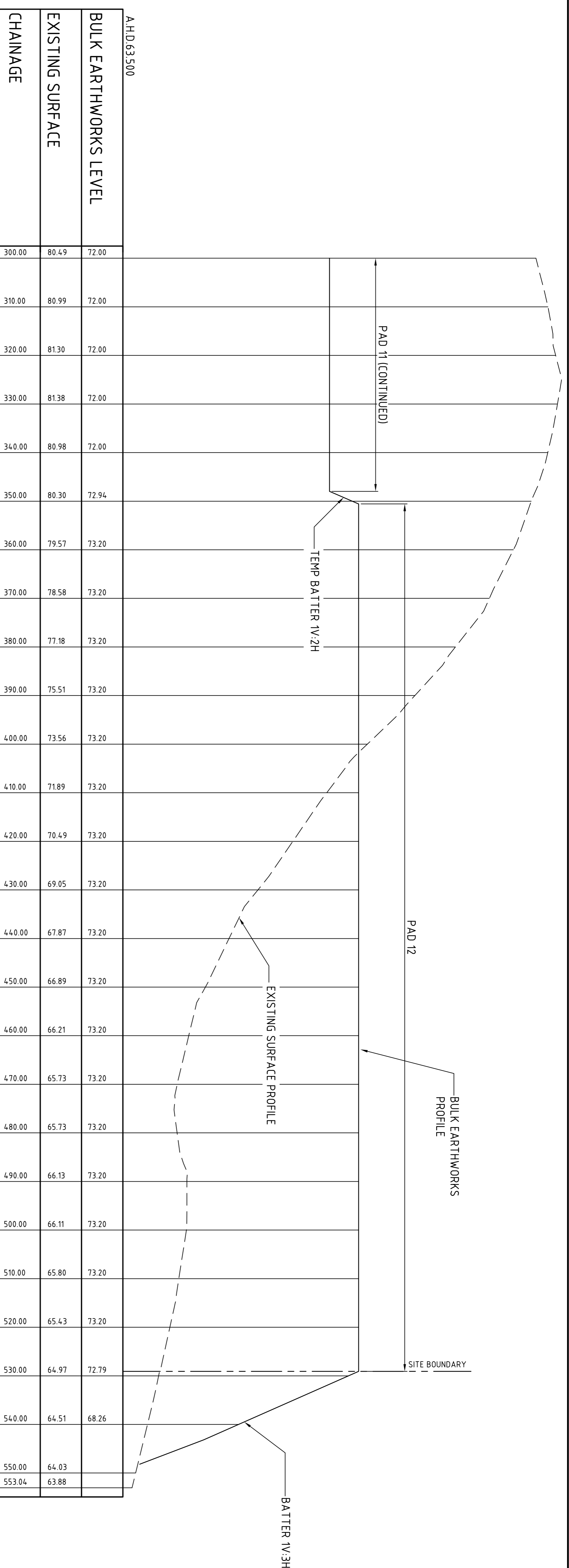
DRAWING TITLE

BULK EARTHWORKS SECTIONS
 SHEET 3

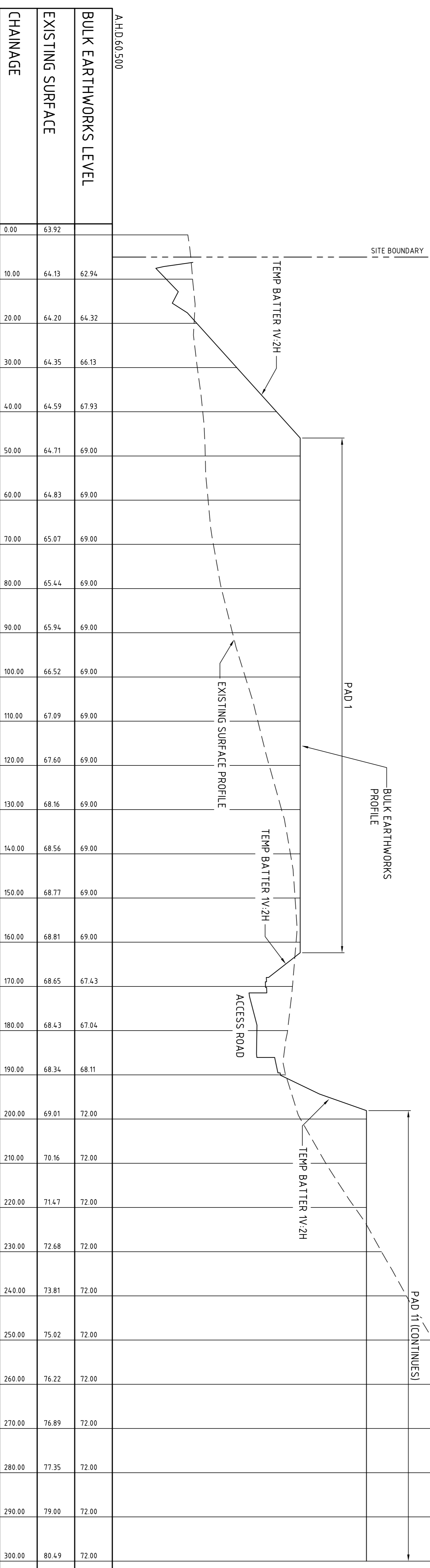
DRAWING No: C011492.00-DA35

ISSUE B





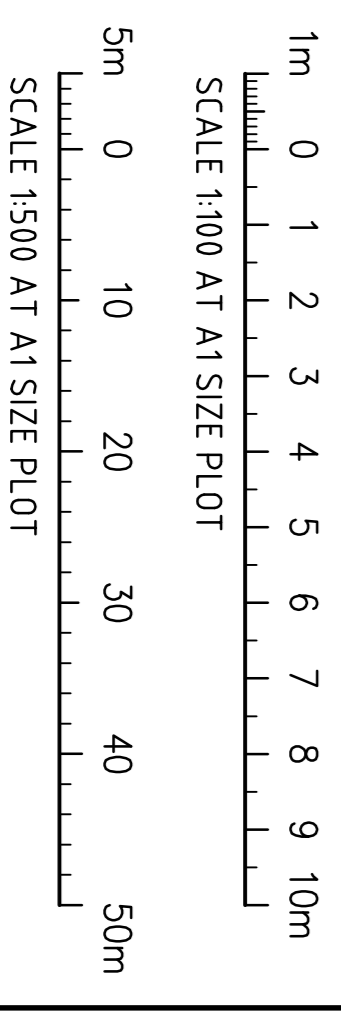
CROSS SECTION 4
 SCALE 1:500 HORIZONTAL.
 SCALE 1:100 VERTICAL.

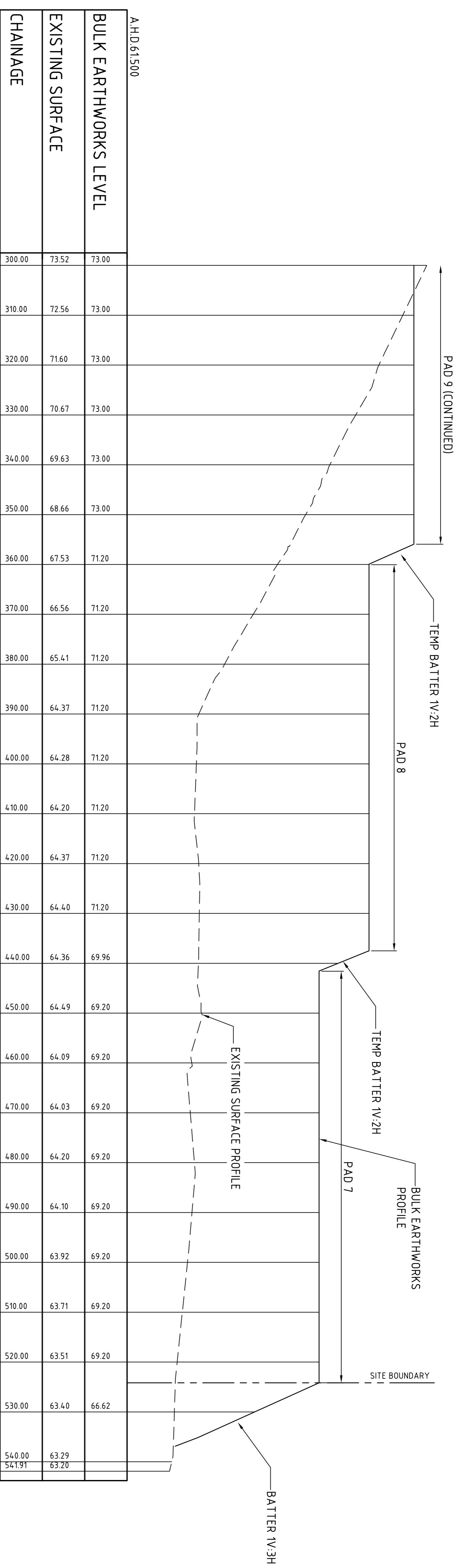


CROSS SECTION 4
 SCALE 1:500 HORIZONTAL.
 SCALE 1:100 VERTICAL.

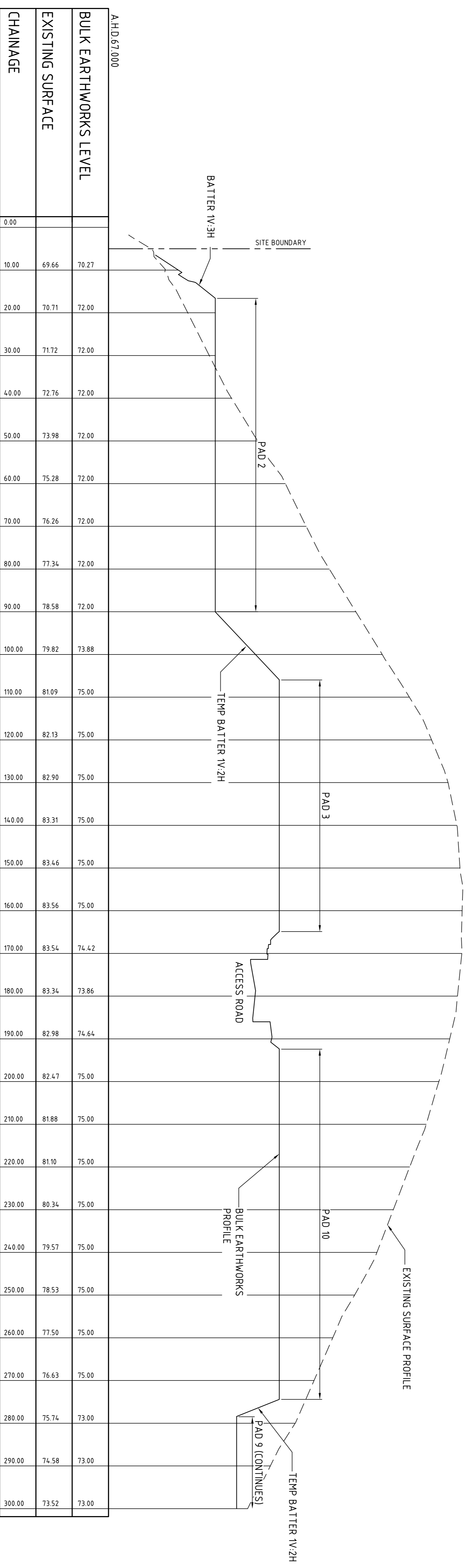
FOR DEVELOPMENT APPLICATION

FOR DEVELOPMENT APPLICATION	08/06/12	B	FOR INFORMATION	07/06/12	A
AMENDMENTS	DATE	ISSUE	AMENDMENTS	DATE	ISSUE
<p>CLIENT: Western Sydney Parklands Trust WESTERN SYDNEY PARKLANDS TRUST LEVEL 4, 10 VALENTINE AVE PARRAMATTA, NSW, 2150</p>					
<p>PROJECT: HORSLEY DV. BUSINESS PARK CNR THE HORSELEY DV. & COMPASTURE RD WETHERILL PARK, NSW</p>					
<p>DESIGNED (DRAWN) DATE CHECKED SIZE SCALE CNO REF.</p>					
<p>M.W. M.C. 02/04/12 AT 1:50 SHOWN C011492.00-DA 36</p>					
<p>Costin Roe Consulting Pty Ltd. Consulting Engineers Level 1, 8 Miranda Street Miranda NSW 2228 Tel: (02) 9299 3100 Fax: (02) 9294 3781 Email: mir@costinroe.com.au</p>					
<p>Value in Engineering and Management</p>					
<p>Costin Roe Consulting</p>					
<p>DRAWING TITLE: BULK EARTHWORKS SECTIONS SHEET 4</p>					
<p>DRAWING No: C011492.00-DA 36</p>					
<p>ISSUE: B</p>					





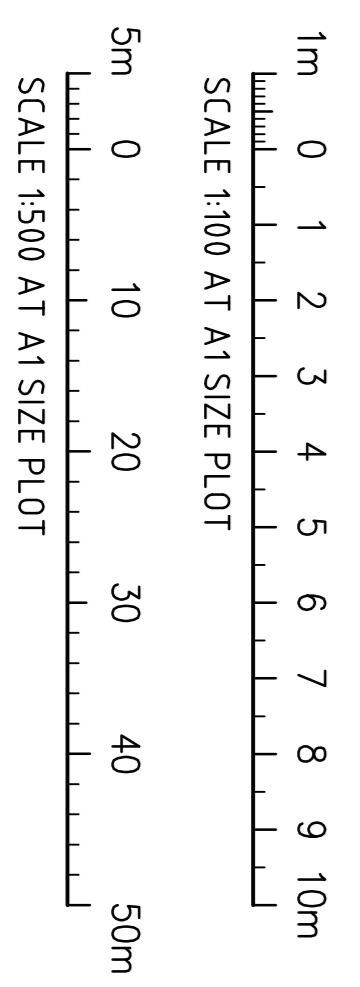
CROSS SECTION 5
 SCALE 1:500 HORIZONTAL, 1:100 VERTICAL.

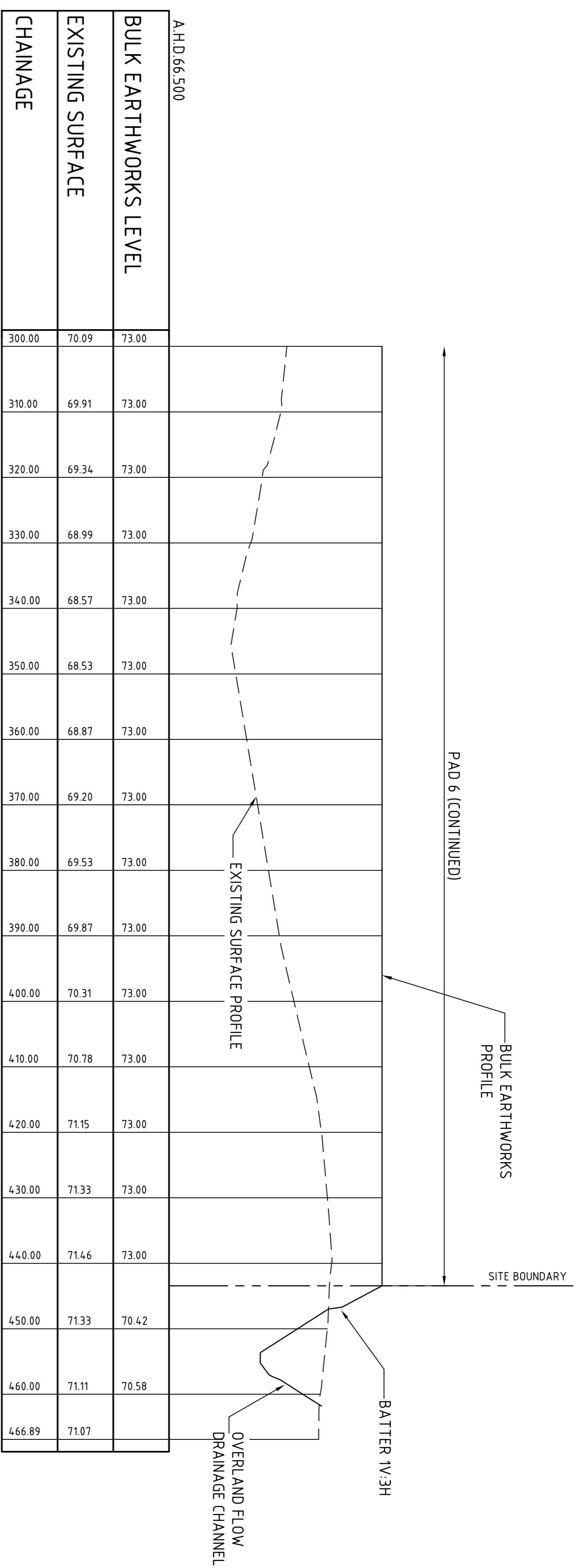


CROSS SECTION 5
 SCALE 1:500 HORIZONTAL, 1:100 VERTICAL.

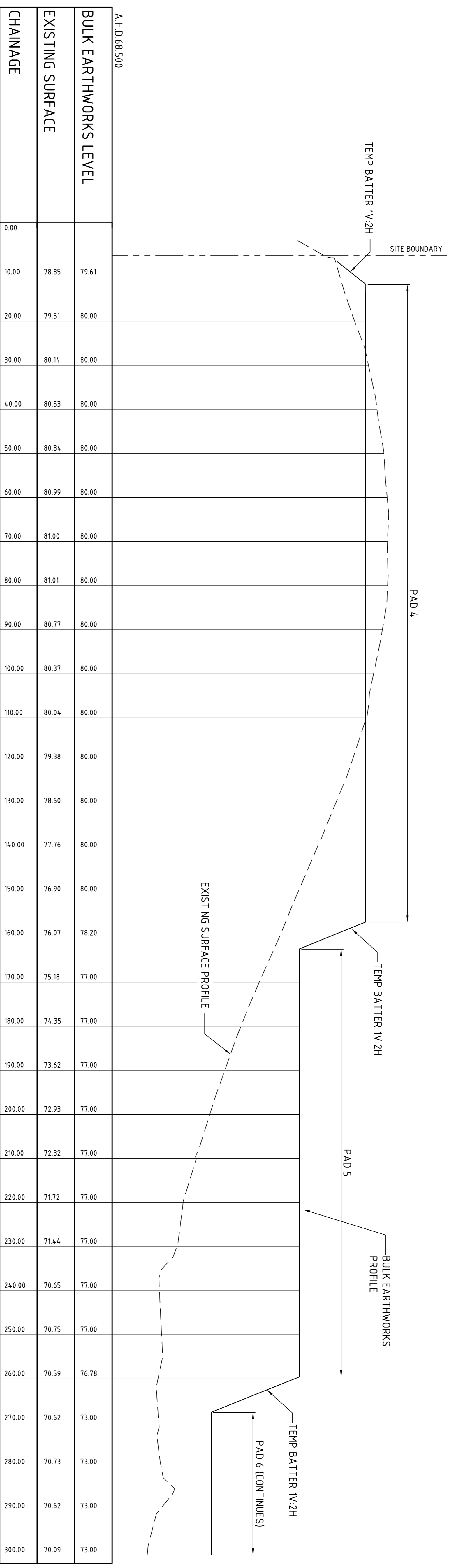
FOR DEVELOPMENT APPLICATION

FOR DEVELOPMENT APPLICATION	08/06/12	B	CLIENT	Western Sydney Parklands Trust						
FOR INFORMATION	07/06/12	A	PROJECT	HORSLEY DV. BUSINESS PARK CNR THE HORSLEY DV. & COMPASTURE RD WETHERILL PARK, NSW						
AMENDMENTS	DATE	ISSUE	DESIGNED (P/NAME)	M.W. M.C.	DATE	CHECKED	SCALE	DATE	SCALE	DATE
			ACCA	Costin Roe Consulting Pty Ltd. Level 1, 8 Miranda Street Miranda NSW 2228 Tel: (02) 9240 3700 Fax: (02) 9240 3701 email: mail@costinroe.com.au						
			Value in Engineering and Management		Costin Roe Consulting		DRAWING TITLE		BULK EARTHWORKS SECTIONS SHEET 5	
							DRAWING No		C011492.00-DA37	
									ISSUE	
									B	

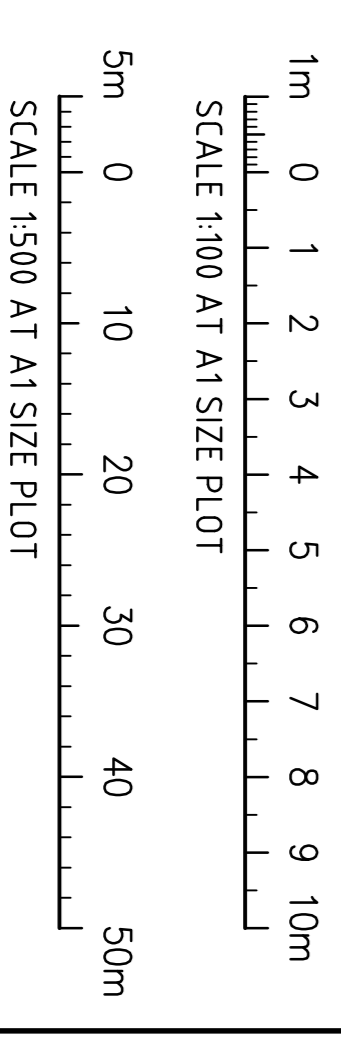




CROSS SECTION 6
SCALE 1:500 HORIZONTAL, 1:31
SCALE 1:100 VERTICAL.



CROSS SECTION 6
SCALE 1:500 HORIZONTAL, 1:32
SCALE 1:100 VERTICAL.



FOR DEVELOPMENT APPLICATION

FOR DEVELOPMENT APPLICATION	08/06/12	B
FOR INFORMATION	07/06/12	A
AMENDMENTS	DATE	ISSUE

CLIENT

WESTERN SYDNEY PARKLANDS TRUST
LEVEL 4, 10 VALENTINE AVE
PARRAMATTA NSW 2150

PROJECT

HORSLEY DV. BUSINESS PARK
CNR THE HORSELEY DV. & COMPASTURE RD
WETHERILL PARK, NSW

ACEA

DESIGNED (P/AM) DATE CHECKED AT AS SHOWN C/O REF.

Costin Roe Consulting Pty Ltd.
Level 1, 8 Miranda Street
Miranda NSW 2225
Tel: (02) 852 7800 Fax: (02) 8241 3781
email: mail@costinroe.com.au

Value in Engineering and Management

DRAWING TITLE

BULK EARTHWORKS SECTIONS
SHEET 6

DRAWING No C011492.00-DA38

ISSUE B

PIT SCHEDULE - STORMWATER SYSTEM

No.	GRATE RL	DEPTH (mm)	TYPE	SIZE (LXB)
PIT A1	74.80	1000	KIP	900x600
PIT A2	73.80	1300	KIP	900x900
PIT A3	71.60	1500	KIP	1200x1200
PIT A4	69.20	1600	KIP	1200x1200
PIT A5	65.70	2150	KIP	1500x1500
PIT A6	65.50	2500	SJP	1500x1500
PIT A7	63.80	2200	SJP	1500x1500
PIT A8	74.80	1000	KIP	900x600
PIT A9	74.00	1000	KIP	900x600
PIT A10	71.90	1050	KIP	900x600
PIT A11	69.60	1000	KIP	900x600
PIT A12	66.20	1300	KIP	900x900
PIT A13	63.70	3000	SJP	900x900
PIT B1	77.00	3500	SJP	900x900
PIT B2	77.00	3700	SJP	900x900
PIT B3	77.00	4300	SJP	900x900
PIT B4	75.90	3550	KIP	900x900
PIT B5	75.60	3450	KIP	900x900
PIT B6	73.90	2400	KIP	1200x1200
PIT B7	72.00	3000	KIP	1500x1500
PIT B8	70.00	2900	KIP	1500x1500
PIT B9	67.60	2200	KIP	1500x1500
PIT B10	74.10	2000	KIP	900x600
PIT B11	72.10	2300	KIP	900x600
PIT B12	70.10	1400	KIP	900x900
PIT B13	67.60	1100	KIP	900x600
PIT B14	73.20	4000	SJP	900x900

FINISHED LEVELS PLAN NOTES:

1. LEVELS DATUM IS A.H.D.
2. ALL CONTOUR LINES & SPOT LEVELS INDICATE FINISHED PAVEMENT LEVELS UN.O. ON PLAN.
3. THE MAJOR CONTOUR INTERVAL IS 0.5m
4. THE MINOR CONTOUR INTERVAL IS 0.1m.
5. MINIMUM PAVEMENT GRADE IS TO BE 1:100 (1%)
6. MAXIMUM PAVEMENT GRADE IS TO BE 1:30 IN DISABLED PARKING, 1:20 (5%) IN CARPARKING AREAS AND 1:25 (4%) ELSEWHERE.
7. MAXIMUM RAMP GRADES ARE TO BE 1:12 (8.3%) UN.O. ON PLAN
8. PROVIDE MINIMUM 3.0m LONG TRANSITION WHERE CHANGES GRADE EXCEED 1:20 (5%).
9. PERMANENT BATTER SLOPES ARE TO HAVE A MAXIMUM GRADE OF 1V:3H.
10. ALL BATTER SLOPE WITH GRADES AT OR EXCEEDING 1V:6H ARE TO BE TURFED IMMEDIATELY OR APPROPRIATE EROSION CONTROL IS TO BE PROVIDED TO THE SATISFACTION OF THE ENGINEER.
11. ALL FOOTPATHS ARE TO FALL AWAY FROM THE BOUNDARY AT 2% NOMINAL GRADE.

STORMWATER DRAINAGE NOTES:

REFER TO DRAWING DA10 FOR STORMWATER DRAINAGE NOTES

REFER TO DRAWING DA70 FOR CATCHMENT ANALYSIS, FLOODING INFORMATION AND STORMWATER MANAGEMENT CONCEPT.



**FOR DEVELOPMENT APPLICATION
FOR APPLICATION**



CONCEPT CIVIL MASTERPLAN
SCALE 1:1500



FOR DEVELOPMENT APPLICATION	08.06.12	C
FOR REVIEW	07.06.12	B
FOR INFORMATION ONLY	28.05.12	A
AMENDMENTS	DATE	ISSUE

CLIENT
Western Sydney Parklands Trust
 WESTERN SYDNEY PARKLANDS TRUST
 LEVEL 4, 10 VALENTINE AVE
 PARRAMATTA NSW 2150

PROJECT
HORSLEY DV. BUSINESS PARK
 CNR THE HORSLEY DV. & COWPASTURE RD
 WETHERILL PARK NSW
 DESIGNED (PDMW) DATE CHECKED (AT) AS SHOWN (C) REF. (C)11492.00-DA 4.0
 H.W. M.C. 02.04.12

ACEA
 Costin Roe Consulting Pty Ltd.
 Consulting Engineers
 Level 1, 8 Mandurah Street
 Maitland NSW 2320
 Tel: (02) 656 3788 Fax: (02) 6241 3781
 email: mail@costinroe.com.au

Value in Engineering and Management

DRAWING TITLE
CONCEPT CIVIL MASTERPLAN
 DRAWING No. **C011492.00-DA4.0**