

#### SEDIMENT POND A SIZING DETAILS

CATCHMENT AREA = 48.4ha
TOTAL SEDIMENT YIELD = 664m³/year

MINIMUM REQUIRED DEPTH, SURFACE AREA AND VOLUME

SEDIMENT POND DEPTH = 0.65m
SEDIMENT POND AREA = 8877m<sup>2</sup>
SEDIMENT POND VOLUME = 5791m<sup>3</sup>

#### SEDIMENT POND B SIZING DETAILS

CATCHMENT AREA = 9.9ha
TOTAL SEDIMENT YIELD = 136m³/year

MINIMUM REQUIRED DEPTH, SURFACE AREA AND VOLUME

SEDIMENT POND DEPTH = 0.65m SEDIMENT POND AREA = 1816m<sup>2</sup> SEDIMENT POND VOLUME = 1184m<sup>3</sup>

#### SEDIMENT POND C SIZING DETAILS

CATCHMENT AREA = 6.7ha
TOTAL SEDIMENT YIELD = 92m³/year

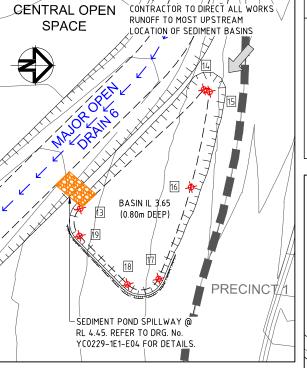
MINIMUM REQUIRED DEPTH, SURFACE AREA AND VOLUME

SEDIMENT POND DEPTH = 0.65m SEDIMENT POND AREA = 1229m<sup>2</sup> SEDIMENT POND VOLUME = 802m<sup>3</sup>

SEDIMENT POND SPILLWAY @

YC0229-1E1-E04 FOR DETAILS.

RL 2.20. REFER TO DRG. No.



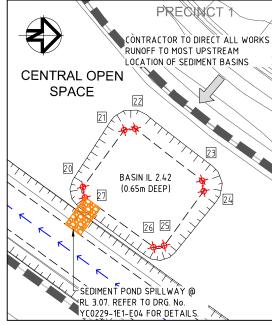
# SEDIMENT BASIN C

SCALE 1:500

BASIN IL 1.40

(0.80m DEEP)

SEDIMENT BASIN B



PROPOSED SURFACE CONTOURS

CENTRELINE OF LOW FLOW CHANNEL

CENTRELINE OF OPEN DRAIN

OVERLAND FLOW DIRECTION

TOP/TOE OF BATTER

BASIN SETOUT POINTS

**LEGEND** 

**2** 

## SEDIMENT BASIN D

SCALE 1:500

# SEDIMENT BASIN SET OUT

POINT EASTING NORTHING

1 Olivi	LACTING	110111111110
1	47027.224	81571.402
2 3	46980.506	81549.199
	46887.968	81420.473
4	46919.841	81566.892
5	46981.202	81566.859
6	46988.220	81571.607
7	46619.513	83091.685
8	46549.702	83078.559
9	46556.046	83021.835
10	46531.227	83016.920
11	46524.847	83074.840
12	46565.379	83091.679
13	46487.054	83213.688
14	46455.578	83246.435
15	46456.175	83247.870
16	46481.404	83243.000
17	46505.631	83234.442
18	46507.148	83226.226
19	46494.299	83213.536
20	46696.608	83269.765
21	46681.613	83280.634
22	46681.227	83283.504
23	46694.957	83301.218
24	46697.731	83301.638
25	46711.998	83291.342
26	46712.586	83288.400
27	46699.401	83270.210
28	47112.803	81313.782
29	47116.118	81318.697
30	47132.762	81362.683
31	47133.641	81402.533
$\sim$	$\sim$	$\sim$

# SEDIMENT BASIN A & TEMPORARY BUND

SCALE 1:1000

• SILT FENCES TO BE ERECTED AT THE LOCATIONS SHOWN

• EROSION CONTROL MEASURES ARE TO BE INSPECTED

• MEASURES ARE TO BE TAKEN TO PREVENT SILT INGRESS TO

AFTER MAJOR EVENTS (> 25mm). ANY REPAIRS REQUIRED

ON DWG's YC0229-1E1-E01 & E02.

ARE TO BE EFFECTED IMMEDIATELY.

STORMWATER SYSTEM.

# GENERAL NOTES

- THE CONTRACTOR IS TO TAKE ALL NECESSARY PRECAUTIONS TO CONTROL EROSION AND DOWNSTREAM SEDIMENTATION DURING ALL STAGES OF CONSTRUCTION INCLUDING THE MAINTENANCE PERIOD.
- 2. ALL SEDIMENT CONTROL DEVICES TO T.S.C. STANDARDS AND SPECIFICATIONS REFER DWG No. S.D.501 S.D.502.
- CONTRACTOR TO DIRECT ALL WORKS RUNOFF TO SEDIMENT BASINS TO THE MOST UPSTREAM LOCATION OF THE BASIN FROM THE SPILLWAY OUTLET.
- SEDIMENT BASINS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE
  DETAILS DESCRIBED IN 'BEST PRACTICE EROSION & SEDIMENT CONTROL' 2008
  GUIDELINES BY THE INTERNATIONAL EROSION CONTROL ASSOCIATION (IECA).
   FOR SEDIMENT BASIN LOCATION, REFER DWGS YC0229-1E1-E01 & 02.

# SEDIMENT POND D SIZING DETAILS

SCALE 1:1000

SAND

ROAD

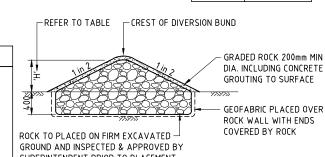
CATCHMENT AREA = 3.5ha TOTAL SEDIMENT YIELD = 48m³/year

MINIMUM REQUIRED DEPTH, SURFACE AREA AND VOLUME

SEDIMENT POND DEPTH = 0.65m

SEDIMENT POND AREA = 642m<sup>2</sup>

SEDIMENT POND VOLUME = 419m<sup>3</sup>



-DIVERSION BUND ACROSS FULL MAJOR

BUND DETAIL BELOW.

CHANNEL WIDTH. REFER TO DIVERSION

# DIVERSION BUND DETAIL

BASIN | 'H' (min.)

450

STATU	S CONSTRUCTION CERTIFICATE	FOR	APPROVAL
D	TITLE REVISED	M.B.	16.12.13
С	BULK EARTHWORKS CONSTRUCTION CERTIFICATE	M.G.	15.02.13
В	RESPONSE TO 3rd PARTY SWMP REVIEW	H.W.	18.10.12
Α	ORIGINAL ISSUE	G.S.	18.03.11
REV	DESCRIPTION	DRAWN	DATE

SILT MANAGEMENT PROGRAM

PHASE

ALL WORKS

ROADWORKS

MAINTENANCE PERIOD

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(AT ORIGINAL SHEET SIZE)

AS SHOWN

SCALE

ORIGINAL SHEET SIZE

LEDA MANORSTEAD Pty Ltd

PROJECT

COBAKI, TWEED HEADS WEST CENTRAL OPEN SPACE BULK EARTHWORKS CONSTRUCTION CERTIFICATE CIVIL ENGINEERING DRAWINGS

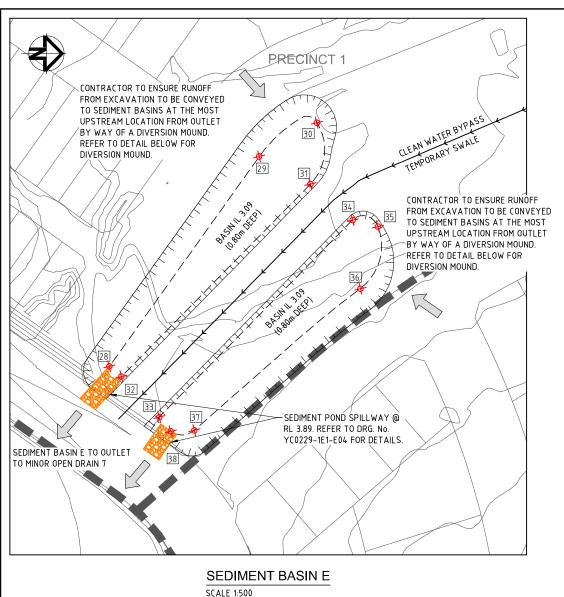


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SEDIMENT BASIN SETOUT DETAILS
SHEET 1 OF 3

TASK	BY	INITIAL	DATE	APPROVED RPEQ No	7817
REVIEW	CS		18.03.11	DRAWING NUMBER	REVISION
DESIGN	CJE		18.03.11	VC0000 4E4 E00	$\Box$
DRAWN	GS		18.03.11	Y C0229-1E1-E03	ן ט



#### SEDIMENT BASIN SET OUT

POINT	EASTING	NORTHING
28	46727.151	83414.755
29	46671.655	83454.384
30	46662.743	83469.658
31	46678.941	83467.927
32	46729.842	83417.963
33	46740.601	83427.860
34	46688.473	83479.029
35	46690.144	83485.702
36	46706.604	83481.074
37	46744.088	83437.156
38	46744.374	83430.912
39	46914.519	83348.764
40	46861.498	83362.253
41	46860.776	83363.467
42	46869.210	83396.618
43	46870.582	83397.285
44	46901.348	83376.522
45	46915.726	83350.006

#### SEDIMENT POND E SIZING DETAILS

CATCHMENT AREA = 16.7ha TOTAL SEDIMENT YIELD = 229m³/year

## MINIMUM REQUIRED DEPTH, SURFACE AREA AND VOLUME

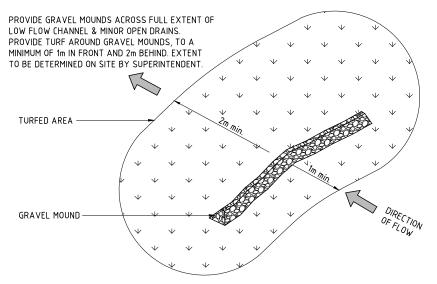
SEDIMENT POND DEPTH = 0.65m SEDIMENT POND AREA = 3063m<sup>2</sup> SEDIMENT POND VOLUME = 1998m3

#### SEDIMENT POND F SIZING DETAILS

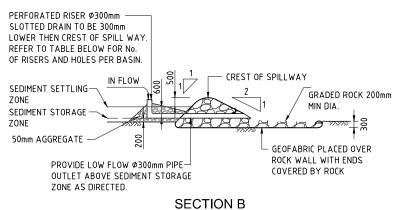
CATCHMENT AREA = 8.7ha TOTAL SEDIMENT YIELD = 119m³/year

#### MINIMUM REQUIRED DEPTH, SURFACE AREA AND VOLUME

SEDIMENT POND DEPTH = 0.65m SEDIMENT POND AREA = 1596m<sup>2</sup> SEDIMENT POND VOLUME = 1041m3

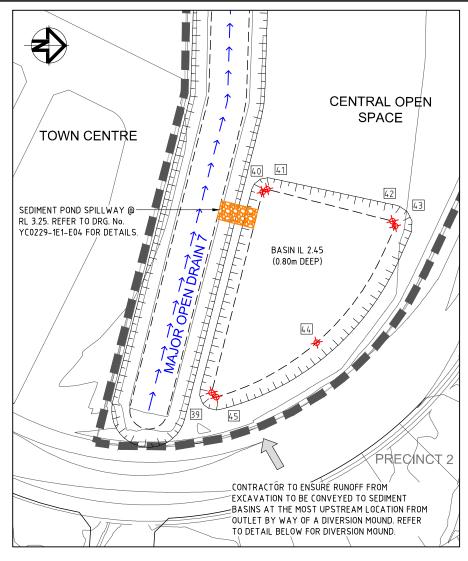


GRAVEL CHECK DAM - OPEN DRAINS



BASIN F TEMP BUND

BASIN E



SEDIMENT BASIN F

SCALE 1:500

FINISHED GROUND SURFACE **DIVERSION MOUND** 

CONSTRUCT COMPACTED EARTH MOUND TO DIVERT OVERLAND FLOWS TO SEDIMENT PONDS.

FOR NOTES & LEGEND REFER TO SHEET 1

STATU	S CONSTRUCTION CERTIFICATE	FOR	APPROVAL
	-		
D	TITLE REVISED	M.B.	16.12.13
С	BULK EARTHWORKS CONSTRUCTION CERTIFICATE	M.G.	15.02.13
В	RESPONSE TO 3rd PARTY SWMP REVIEW	H.W.	18.10.12
Α	ORIGINAL ISSUE	G.S.	18.03.11
DEV	DESCRIPTION	DD A V/AI	DATE

SEDIMENT

STORAGE ZONE

CENTRE

SPILLWAY

EMBANKMENT

APPROVED

GEOFABRIC PLACED

OVER ROCK WALL

NO-FINES

GEOFABRIC

SEDIMENT BASIN DETAILS

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Perforated Hole Size

Number of Perforated Riser Pipes

1.0m, 3.0m MIN. 1.0m, 8

**SECTION A** 

· CENTRE

ORIGINA SHEET SIZE

SPILLWAY

SCALE (AT ORIGINAL SHEET SIZE)

AS SHOWN

GRADED ROCK

200mm MIN DIA

LEDA MANORSTEAD Pty Ltd

COBAKI, TWEED HEADS WEST **CENTRAL OPEN SPACE BULK EARTHWORKS** 

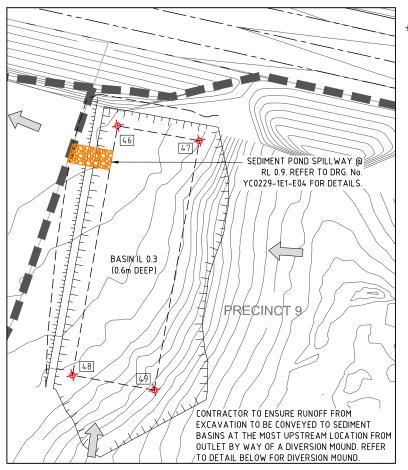
**CONSTRUCTION CERTIFICATE** CIVIL ENGINEERING DRAWINGS



SEDIMENT BASIN SETOUT DETAILS
SHEET 2 OF 3
I

TASK	BY	INITIAL	DATE	APPROVED RPEQ No	7817
REVIEW	CS		18.03.11	DRAWING NUMBER	REVISION
DESIGN	CJE		18.03.11	VC0000 4E4 E04	
DRAWN	GS		18.03.11	Y C0229-1E1-E04	ן ט

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#### SEDIMENT BASIN G

SCALE 1:500

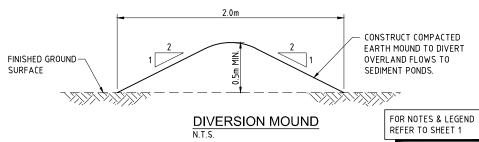
### SEDIMENT POND G SIZING DETAILS

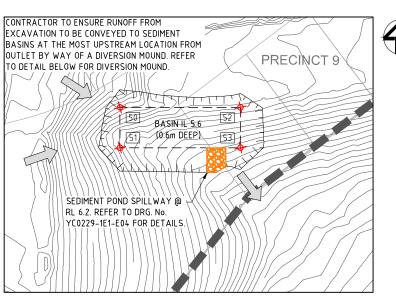
CATCHMENT AREA = 8.28ha TOTAL SEDIMENT YIELD = 114m³/year

MINIMUM REQUIRED DEPTH, SURFACE AREA AND VOLUME

SEDIMENT POND DEPTH = 0.6m SEDIMENT POND AREA = 1519m<sup>2</sup> SEDIMENT POND VOLUME = 991m3

DESCRIPTION





CIVIL ENGINEERING DRAWINGS

#### SEDIMENT BASIN H

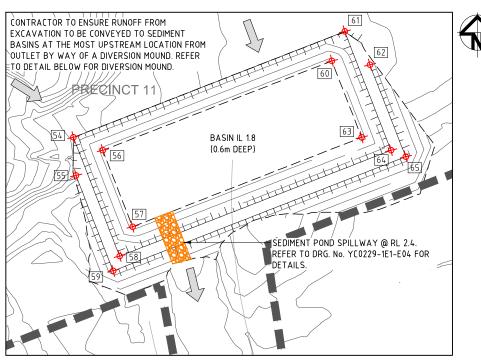
SCALE 1:500

### SEDIMENT POND H SIZING DETAILS

CATCHMENT AREA = 1.55ha TOTAL SEDIMENT YIELD = 25m³/year

MINIMUM REQUIRED DEPTH, SURFACE AREA AND VOLUME

SEDIMENT POND DEPTH = 0.6m SEDIMENT POND AREA = 284m<sup>2</sup> SEDIMENT POND VOLUME = 188m<sup>3</sup>



## SEDIMENT BASIN J

SCALE 1:500

# SEDIMENT POND J SIZING DETAILS

CATCHMENT AREA = 7.62ha TOTAL SEDIMENT YIELD = 104m³/year

MINIMUM REQUIRED DEPTH, SURFACE AREA AND VOLUME

SEDIMENT POND DEPTH = 0.6m SEDIMENT POND AREA = 1398m<sup>2</sup> SEDIMENT POND VOLUME = 912m3

# SEDIMENT BASIN SET OUT

POINT	EASTING	NORTHING
46	46882.1893	81336.9018
47	46898.3567	81333.9720
48	46873.4001	81288.3998
49	46889.5674	81285.4700
50	46855.2075	81036.3076
51	46855.2075	81025.6850
52	46887.0753	81036.3076
53	46887.0753	81025.6850
54	46196.1816	81450.9235
55	46196.8797	81440.8717
56	46203.9509	81447.5121
57	46211.8270	81427.3050
58	46208.4156	81419.5357
59	46206.7099	81415.6510
60	46264.5723	81471.1404
61	46267.9837	81478.9098
62	46274.6409	81470.0907
63	46272.4484	81450.9333
64	46280.2177	81447.5219
65	46284.1024	81445.8162

FOR NOTES & LEGEND REFER TO SHEET 1

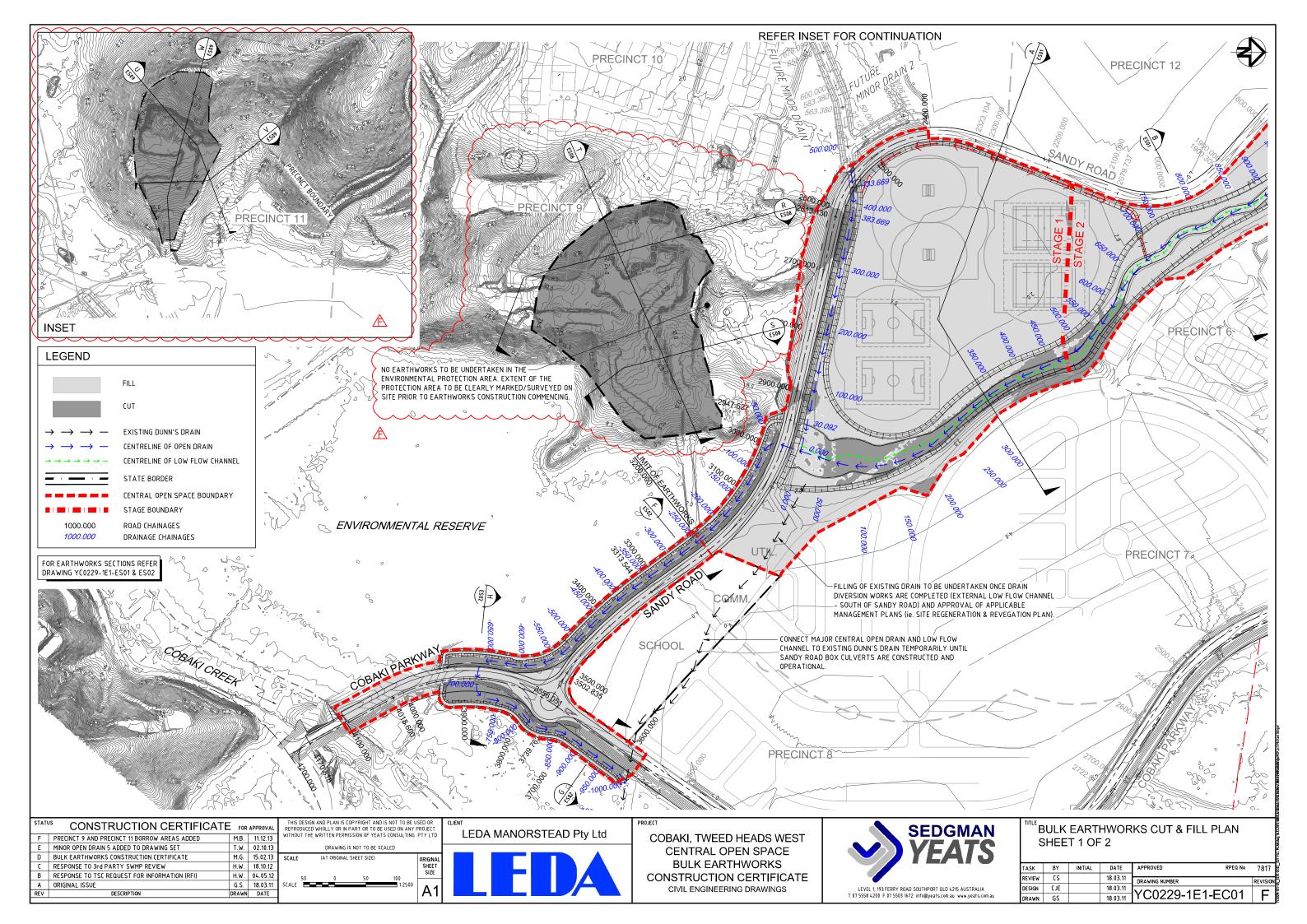
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			SCALE	(AT ORIGINAL SHEET SIZE)	ORIGINAL SHEET			BULK EARTHWORKS	
A 0	riginal issue	G.S. 11.12.13		AS SHOWN	SIZE A 1			CONSTRUCTION CERTIFICATE	LEVEL 1 193 FERR)

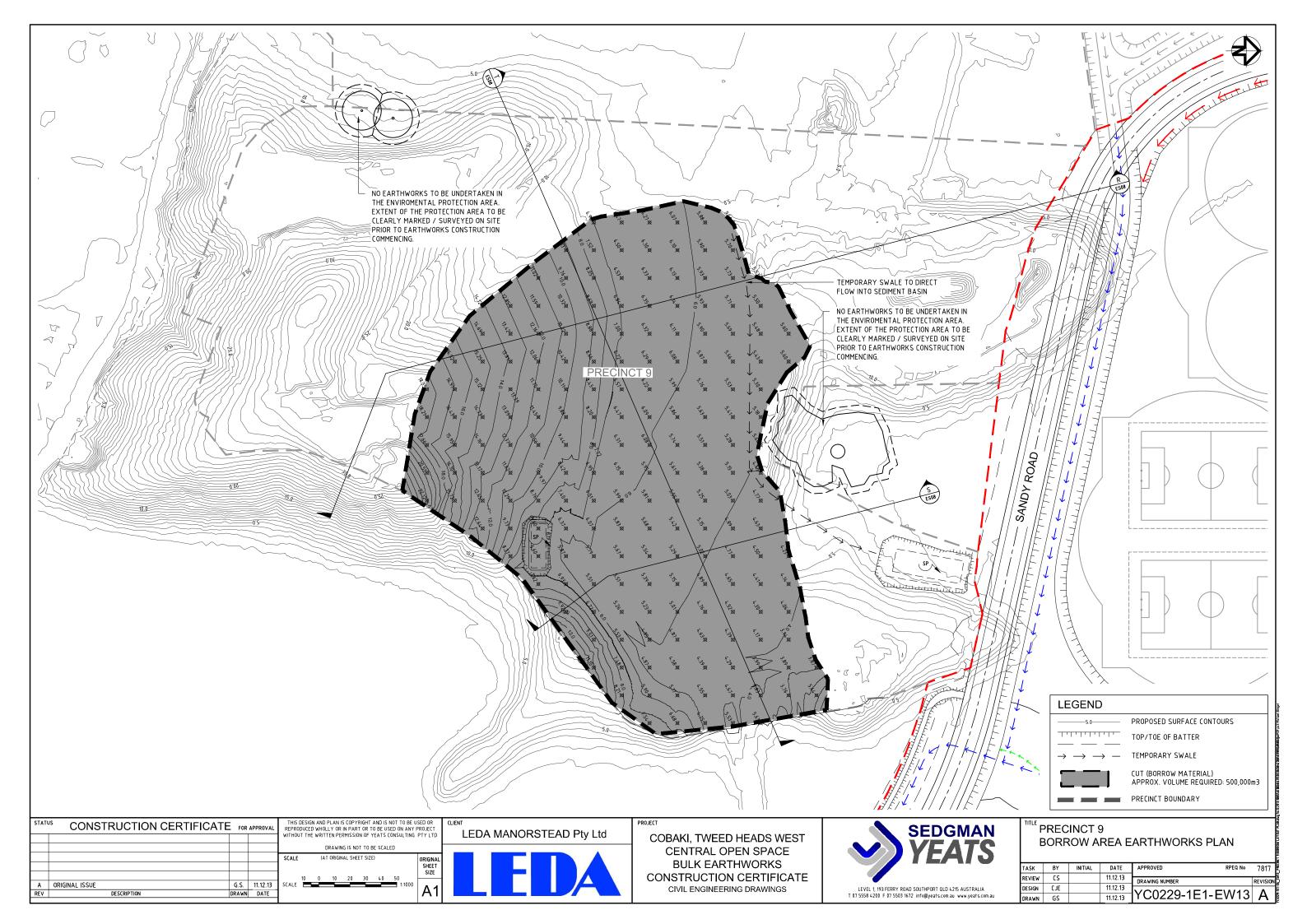
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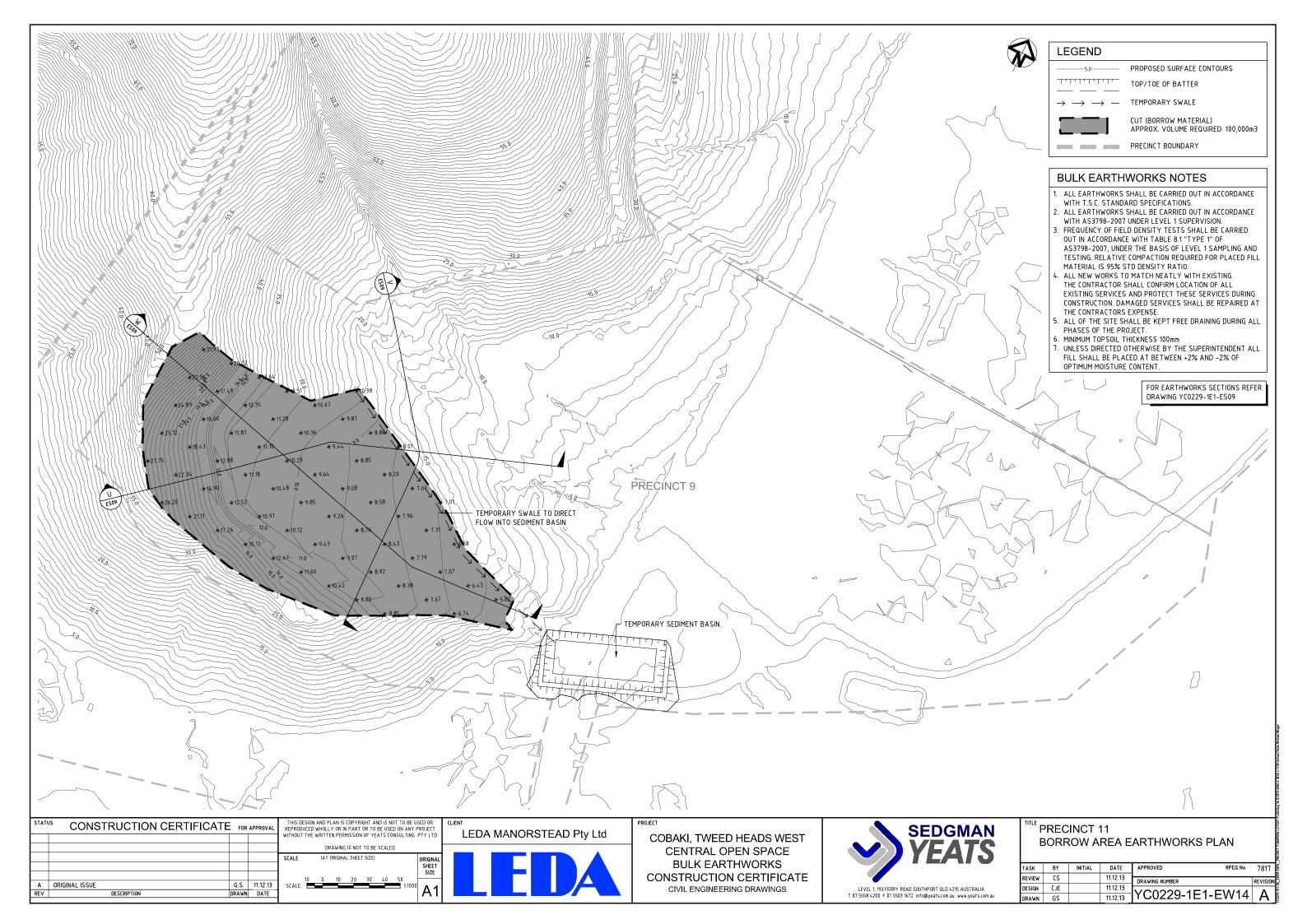
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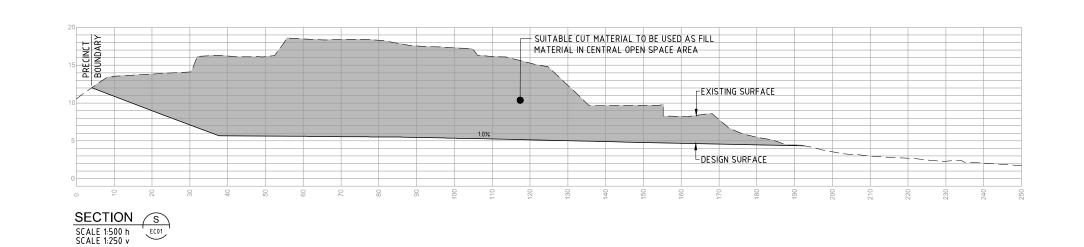
SEDIMENT BASIN SETOUT DETAILS
SHEET 3 OF 3

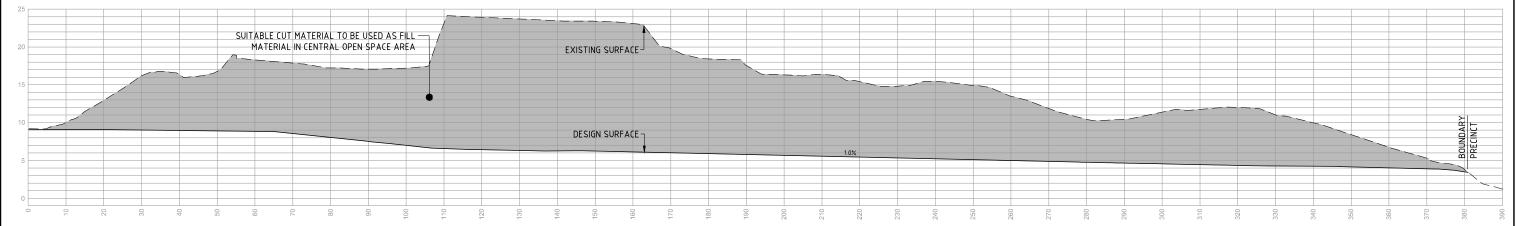
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DRAWN	GS		18.03.11	YC0229-1E1-E05	A



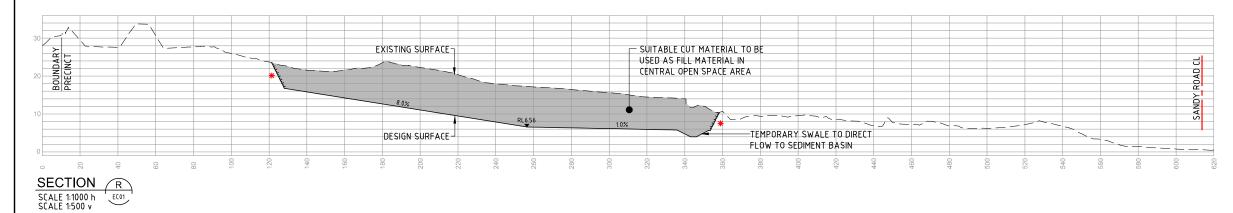








SECTION T SCALE 1:500 h SCALE 1:250 v



# NOTE

\*\* CONTRACTOR TO APPLY A TEMPORARY 1 in 2 BATTER AT THIS LOCATION DURING BULK EARTHWORKS PHASE. LANDFORMING OF FUTURE EARTHWORKS IS TO BE UNDERTAKEN AS PART OF FUTURE WORKS OF PRECINCT 11 AND SHALL NOT BE INCLUDED IN THE BORROW AREAS FOR THE CENTRAL OPEN SPACE.

# 

STATU	STATUS CONSTRUCTION CERTIFICATE FOR APPROV					
Α	ORIGINAL ISSUE	G.S.	11.12.13			
REV	DESCRIPTION	DRAWN	DATE			

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(AT ORIGINAL SHEET SIZE)

AS SHOWN



COBAKI, TWEED HEADS WEST
CENTRAL OPEN SPACE
BULK EARTHWORKS
CONSTRUCTION CERTIFICATE
CIVIL ENGINEERING DRAWINGS



PRECINCT 9
BORROW AREA EARTHWORKS SECTIONS

TASK	BY	INITIAL	DATE	APPROVED RPEQ No	7817
REVIEW	CS		11.12.13	DRAWING NUMBER	REVISION
DESIGN	MB		11.12.13	\(\alpha\)	Δ
DRAWN	GS		11.12.13	YC0229-1E1-ES08	A

