

SEDIMENT BASIN G

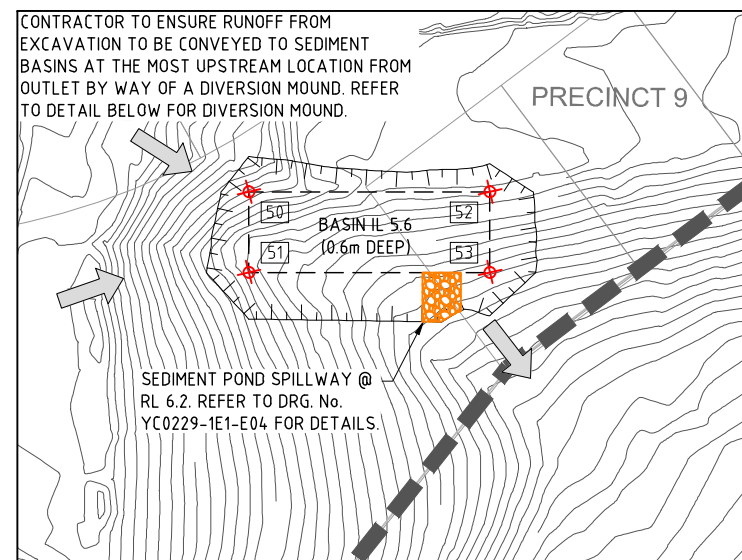
SCALE 1:500

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 = 1519m²
SEDIMENT POND VOLUME = 991m³



SEDIMENT BASIN H

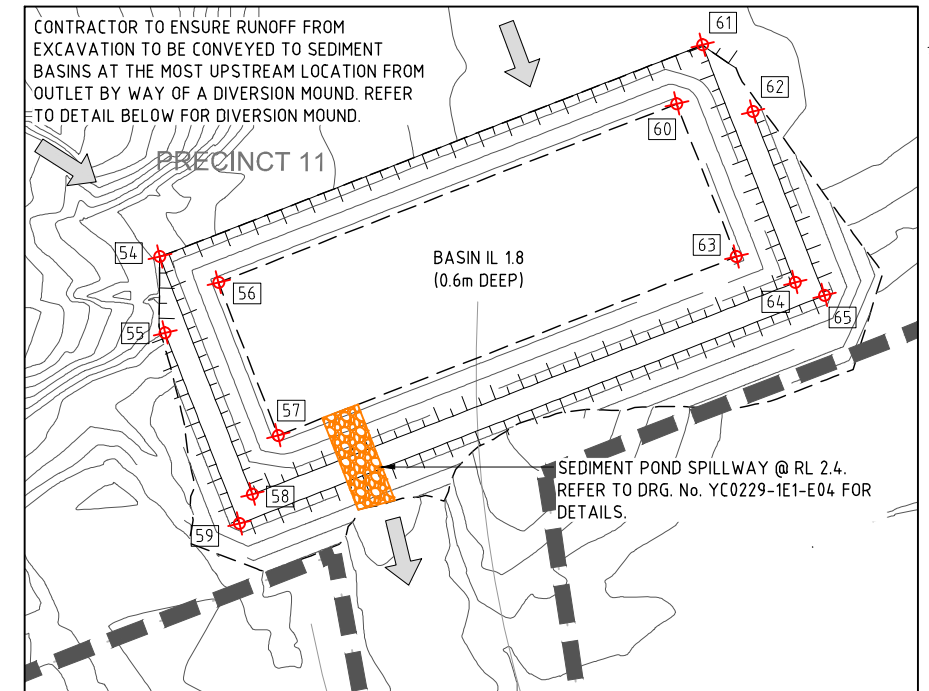
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SEDIMENT POND H SIZING DETAILS

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

MINIMUM REQUIRED DEPTH, SURFACE AREA AND VOLUME

SEDIMENT POND DEPTH = 0.6m
SEDIMENT POND AREA = 284m²
SEDIMENT POND VOLUME = 188m³



SEDIMENT BASIN J

SCALE 1:500

SEDIMENT POND J SIZING DETAILS

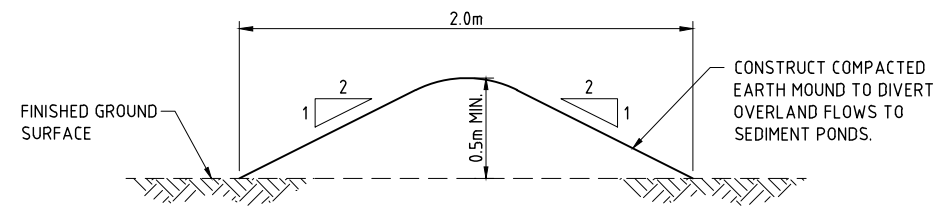
CATCHMENT AREA = 7.62ha
TOTAL SEDIMENT YIELD = 104m³/year

MINIMUM REQUIRED DEPTH, SURFACE AREA AND VOLUME

SEDIMENT POND DEPTH = 0.6m
SEDIMENT POND AREA = 1398m²
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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STATUS	CONSTRUCTION CERTIFICATE	FOR APPROVAL
A	ORIGINAL ISSUE	G.S. 11.12.13
REV	DESCRIPTION	DRAWN DATE

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SCALE (AT ORIGINAL SHEET SIZE)

AS SHOWN

ORIGINAL SHEET SIZE

A1

CLIENT

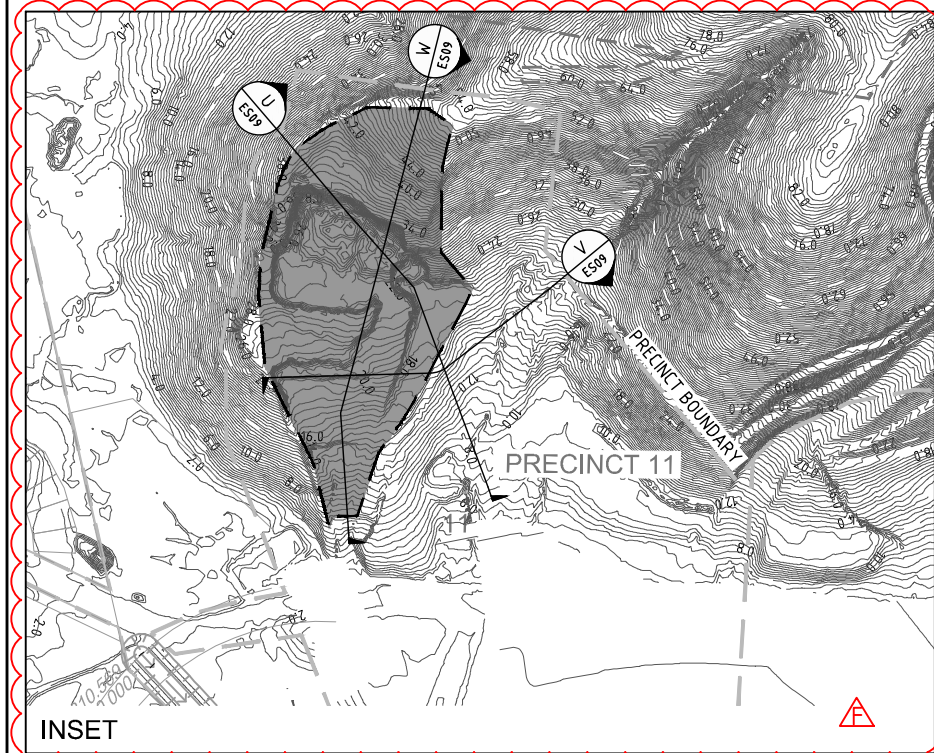
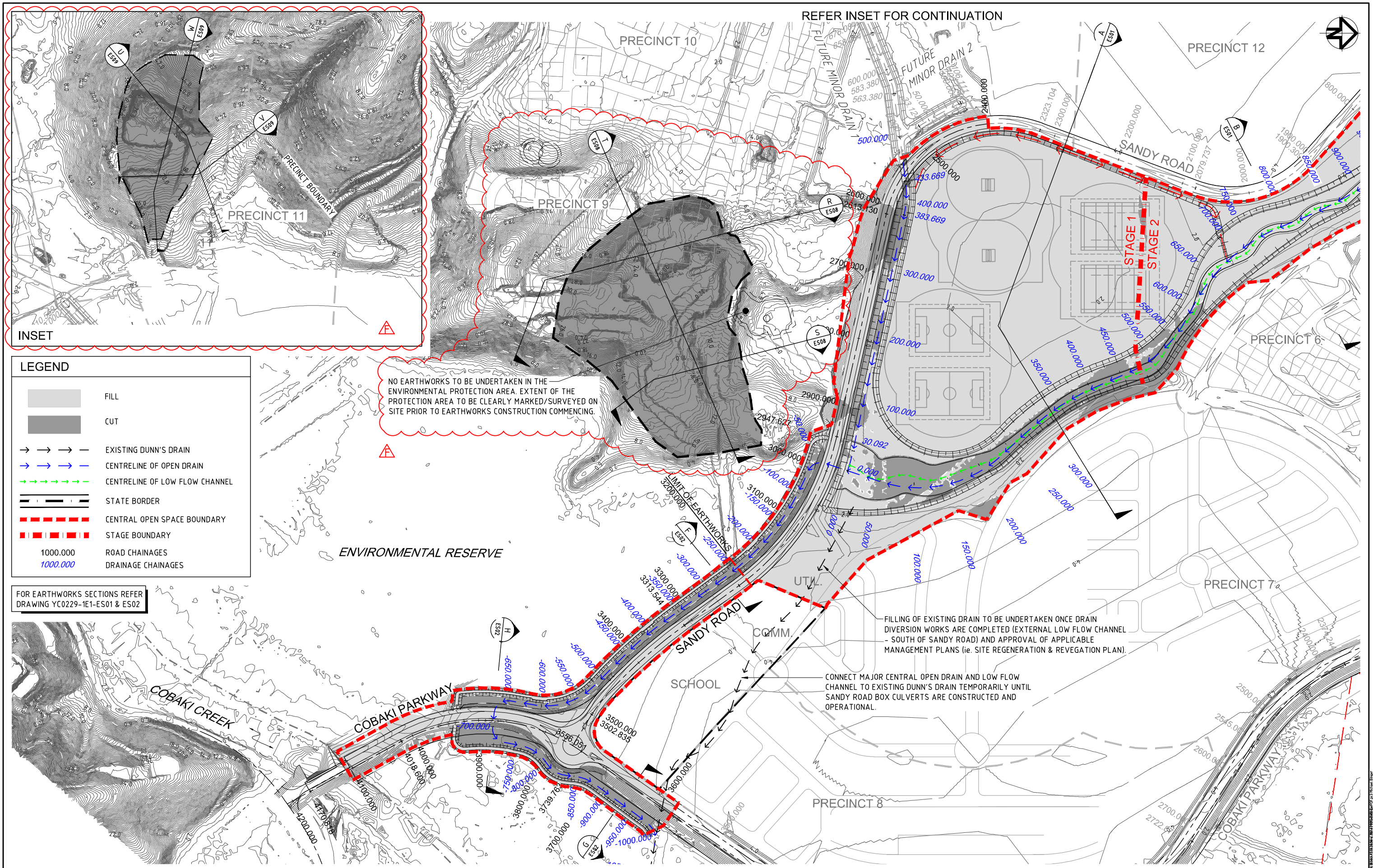
LEDA MANORSTEAD Pty Ltd

PROJECT

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

LEVEL 1, 193 FERRY ROAD SOUTHPORT QLD 4215 AUSTRALIA
T 07 5558 4200 F 07 5503 1672 info@yeats.com.au www.yeats.com.au

TASK	BY	INITIAL	DATE	APPROVED	RPEQ No	7817
REVIEW	CS		18.03.11	DRAWING NUMBER		REVISION
DESIGN	CJE		18.03.11	YC0229-1E1-E05		A
DRAWN	GS		18.03.11			

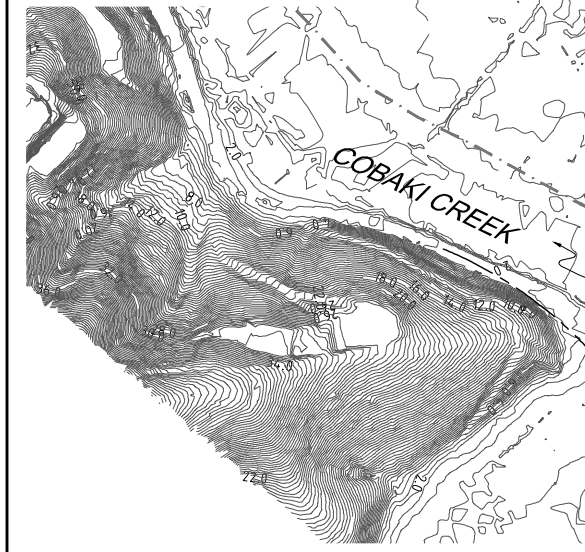


LEGEND

	FILL
	CUT
	EXISTING DUNN'S DRAIN
	CENTRELINE OF OPEN DRAIN
	CENTRELINE OF LOW FLOW CHANNEL
	STATE BORDER
	CENTRAL OPEN SPACE BOUNDARY
	STAGE BOUNDARY
	1000.000 ROAD CHAINAGES
	1000.000 DRAINAGE CHAINAGES

NO EARTHWORKS TO BE UNDERTAKEN IN THE ENVIRONMENTAL PROTECTION AREA. EXTENT OF THE PROTECTION AREA TO BE CLEARLY MARKED/SURVEYED ON SITE PRIOR TO EARTHWORKS CONSTRUCTION COMMENCING.

FOR EARTHWORKS SECTIONS REFER DRAWING YC0229-1E1-ES01 & ES02



FILLING OF EXISTING DRAIN TO BE UNDERTAKEN ONCE DRAIN DIVERSION WORKS ARE COMPLETED (EXTERNAL LOW FLOW CHANNEL - SOUTH OF SANDY ROAD) AND APPROVAL OF APPLICABLE MANAGEMENT PLANS (ie. SITE REGENERATION & REVEGETATION PLAN).

CONNECT MAJOR CENTRAL OPEN DRAIN AND LOW FLOW CHANNEL TO EXISTING DUNN'S DRAIN TEMPORARILY UNTIL SANDY ROAD BOX CULVERTS ARE CONSTRUCTED AND OPERATIONAL.

REV	DESCRIPTION	DRAWN	DATE
A	ORIGINAL ISSUE	G.S.	18.03.11
B	RESPONSE TO TSC REQUEST FOR INFORMATION (RFI)	H.W.	04.05.12
C	RESPONSE TO 3rd PARTY SWMP REVIEW	H.W.	18.10.12
D	BULK EARTHWORKS CONSTRUCTION CERTIFICATE	M.G.	15.02.13
E	MINOR OPEN DRAIN 5 ADDED TO DRAWING SET	T.W.	02.10.13
F	PRECINCT 9 AND PRECINCT 11 BORROW AREAS ADDED	M.B.	11.12.13

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SCALE (AT ORIGINAL SHEET SIZE)

SCALE 50 0 50 100 1:2500

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LEDA MANORSTEAD Pty Ltd

PROJECT

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

ORIGINAL SHEET SIZE

A1

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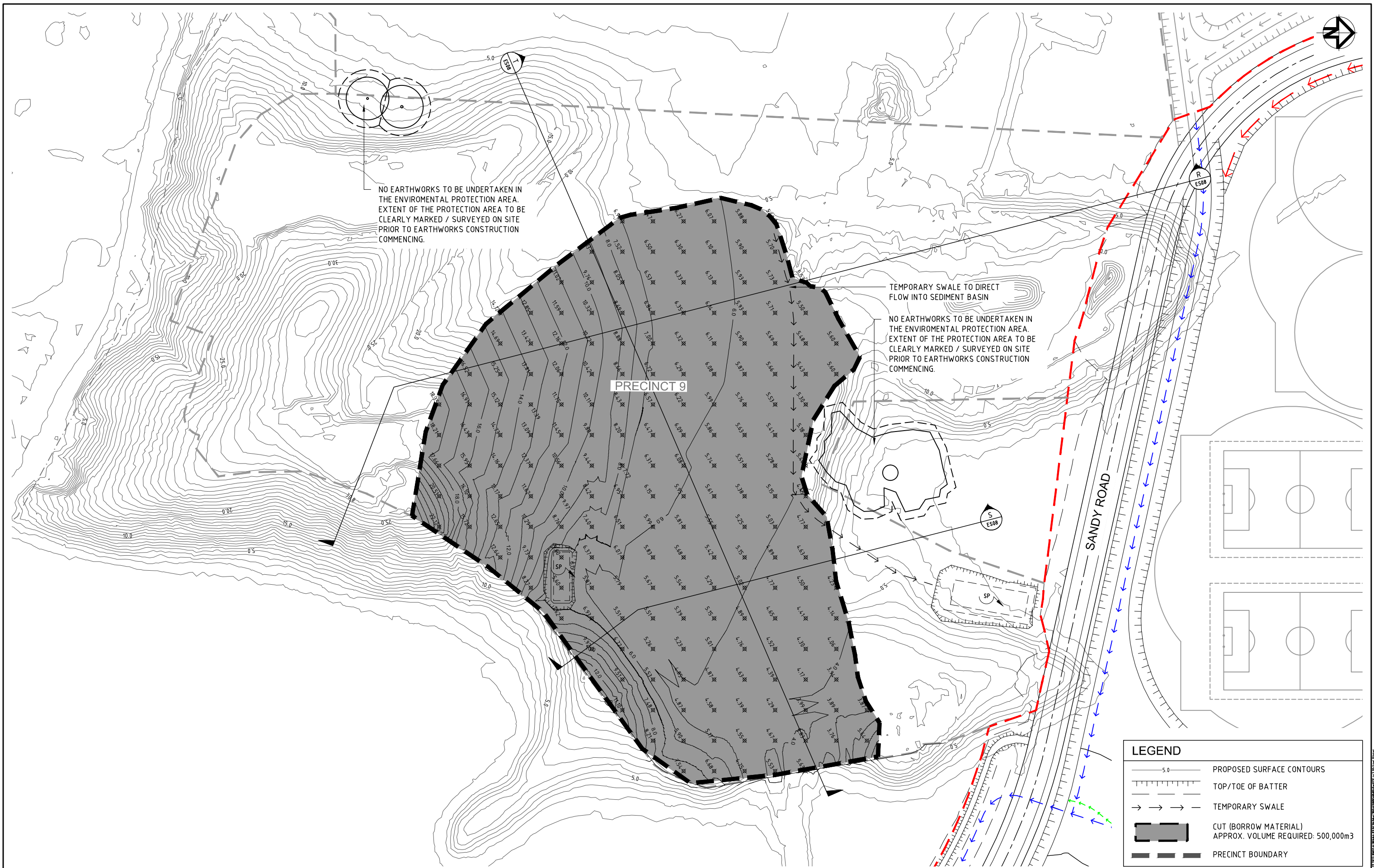
TASK	BY	INITIAL	DATE	APPROVED	RPEQ No	7817
REVIEW	CS		18.03.11			
DESIGN	CJE		18.03.11			
DRAWN	GS		18.03.11			

DRAWING NUMBER: YC0229-1E1-EC01

REVISION: F

TITLE

BULK EARTHWORKS CUT & FILL PLAN
SHEET 1 OF 2



STATUS		CONSTRUCTION CERTIFICATE FOR APPROVAL	
A	ORIGINAL ISSUE	G.S.	11.12.13
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SCALE (AT ORIGINAL SHEET SIZE)

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ORIGINAL SHEET SIZE
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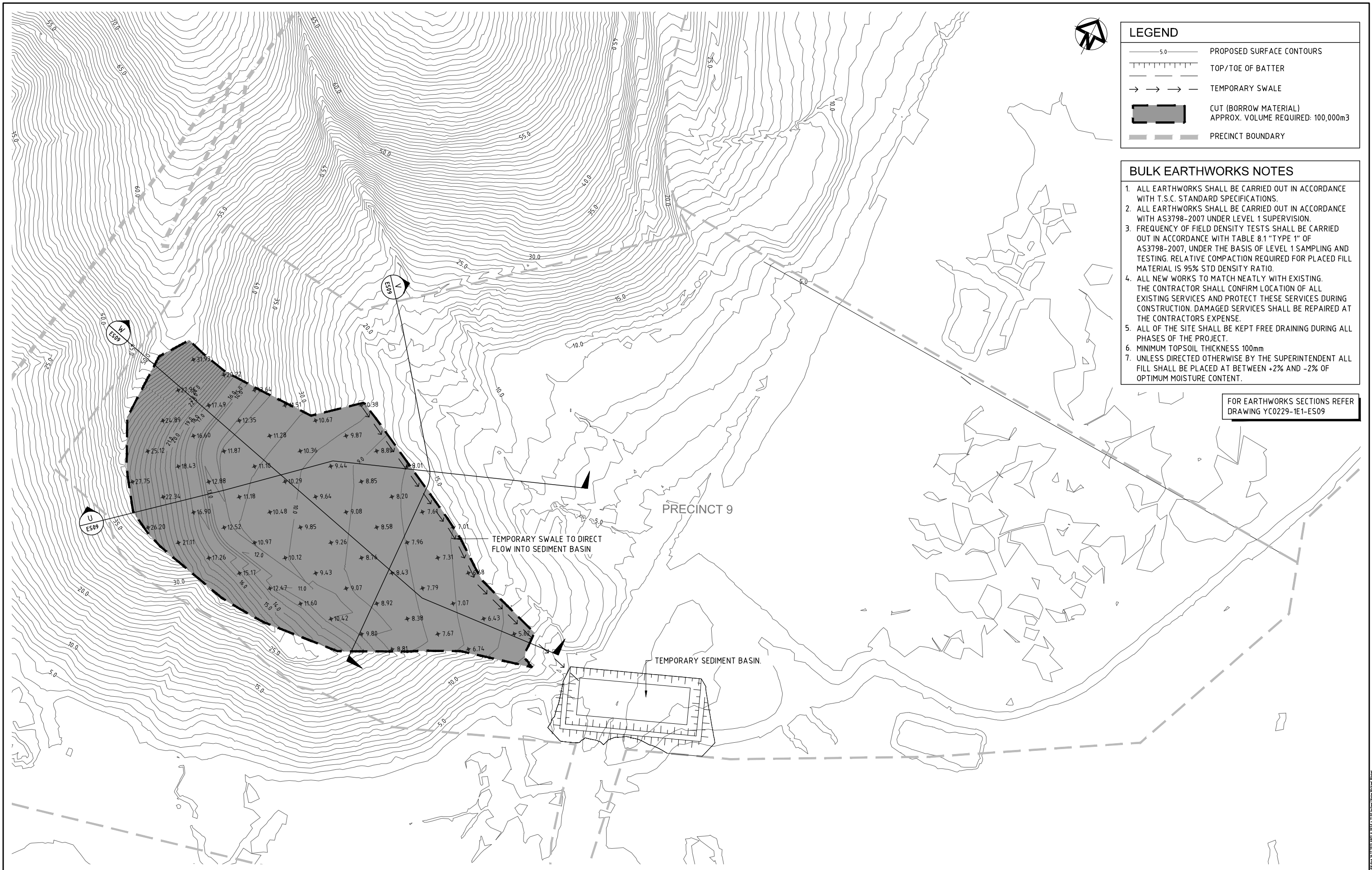
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TITLE		PRECINCT 9 BORROW AREA EARTHWORKS PLAN	
TASK	BY	INITIAL	DATE
REVIEW	CS		11.12.13
DESIGN	CJE		11.12.13
DRAWN	GS		11.12.13
APPROVED	RPEQ No		7817
DRAWING NUMBER		REVISION	
YC0229-1E1-EW13		A	

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LEGEND	
	PROPOSED SURFACE CONTOURS
	TOP/TOE OF BATTER
	TEMPORARY SWALE
	CUT (BORROW MATERIAL) APPROX. VOLUME REQUIRED: 100,000m ³
	PRECINCT BOUNDARY

- BULK EARTHWORKS NOTES**
1. ALL EARTHWORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH T.S.C. STANDARD SPECIFICATIONS.
 2. ALL EARTHWORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH AS3798-2007 UNDER LEVEL 1 SUPERVISION.
 3. FREQUENCY OF FIELD DENSITY TESTS SHALL BE CARRIED OUT IN ACCORDANCE WITH TABLE 8.1 "TYPE 1" OF AS3798-2007, UNDER THE BASIS OF LEVEL 1 SAMPLING AND TESTING. RELATIVE COMPACTION REQUIRED FOR PLACED FILL MATERIAL IS 95% STD DENSITY RATIO.
 4. ALL NEW WORKS TO MATCH NEATLY WITH EXISTING. THE CONTRACTOR SHALL CONFIRM LOCATION OF ALL EXISTING SERVICES AND PROTECT THESE SERVICES DURING CONSTRUCTION. DAMAGED SERVICES SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
 5. ALL OF THE SITE SHALL BE KEPT FREE DRAINING DURING ALL PHASES OF THE PROJECT.
 6. MINIMUM TOPSOIL THICKNESS 100mm
 7. UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT ALL FILL SHALL BE PLACED AT BETWEEN +2% AND -2% OF OPTIMUM MOISTURE CONTENT.

FOR EARTHWORKS SECTIONS REFER DRAWING YC0229-1E1-ES09

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ORIGINAL SHEET SIZE
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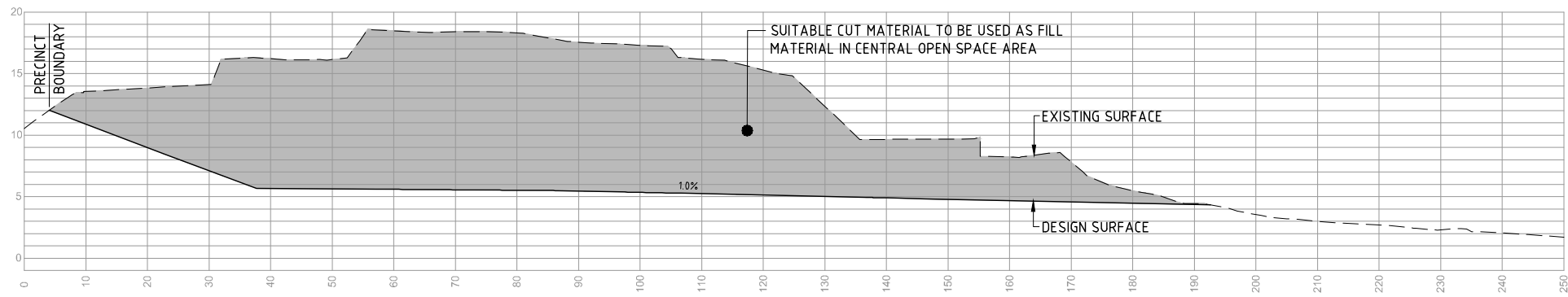
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PROJECT
COBAKI, TWEED HEADS WEST
CENTRAL OPEN SPACE
BULK EARTHWORKS
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CIVIL ENGINEERING DRAWINGS

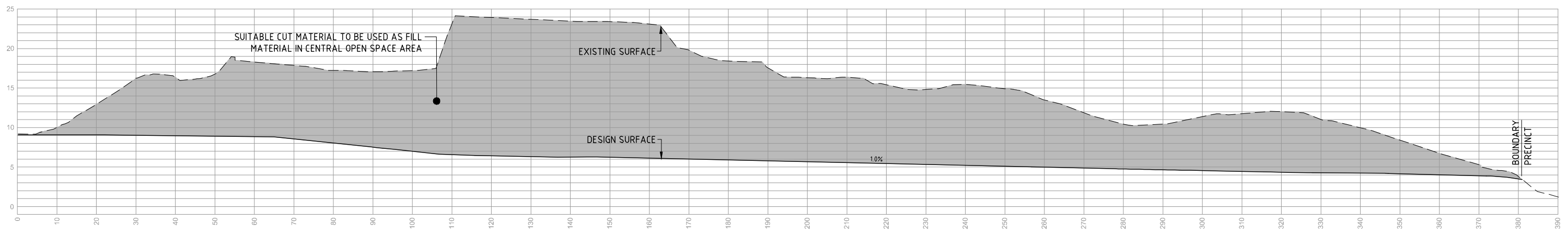
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TITLE					
PRECINCT 11 BORROW AREA EARTHWORKS PLAN					
TASK	BY	INITIAL	DATE	APPROVED	RPEQ No 7817
REVIEW	CS		11.12.13		
DESIGN	CJE		11.12.13		
DRAWN	GS		11.12.13		
				DRAWING NUMBER	REVISION
				YC0229-1E1-EW14	A

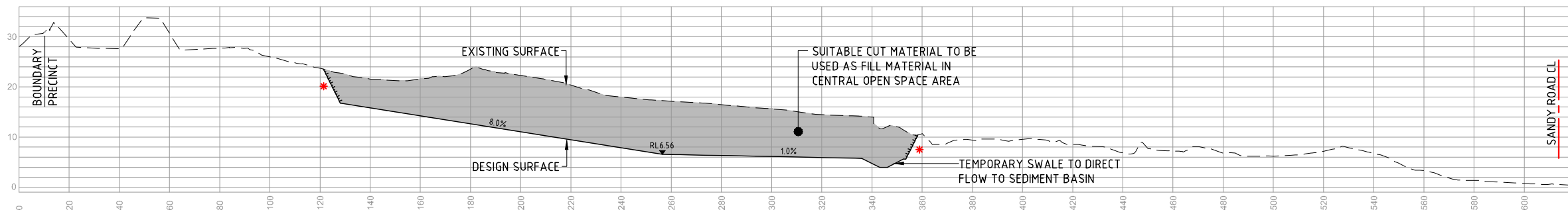
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SECTION S
SCALE 1:500 h
SCALE 1:250 v



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



SECTION R
SCALE 1:1000 h
SCALE 1:500 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.

LEGEND

	FINAL DESIGN SURFACE
	EXISTING DESIGN SURFACE
	TEMPORARY 1 in 2 BATTER
	CUT (BORROW MATERIAL)

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SCALE (AT ORIGINAL SHEET SIZE)					
AS SHOWN					
ORIGINAL SHEET SIZE					
A1					
A	ORIGINAL ISSUE	G.S.	11.12.13		
REV	DESCRIPTION	DRAWN	DATE		

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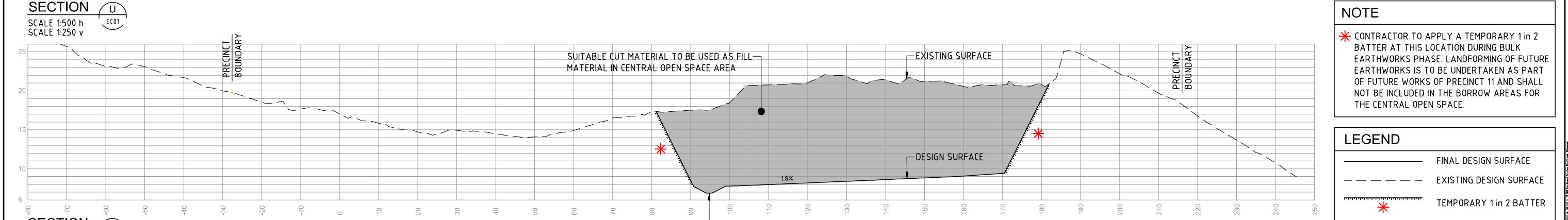
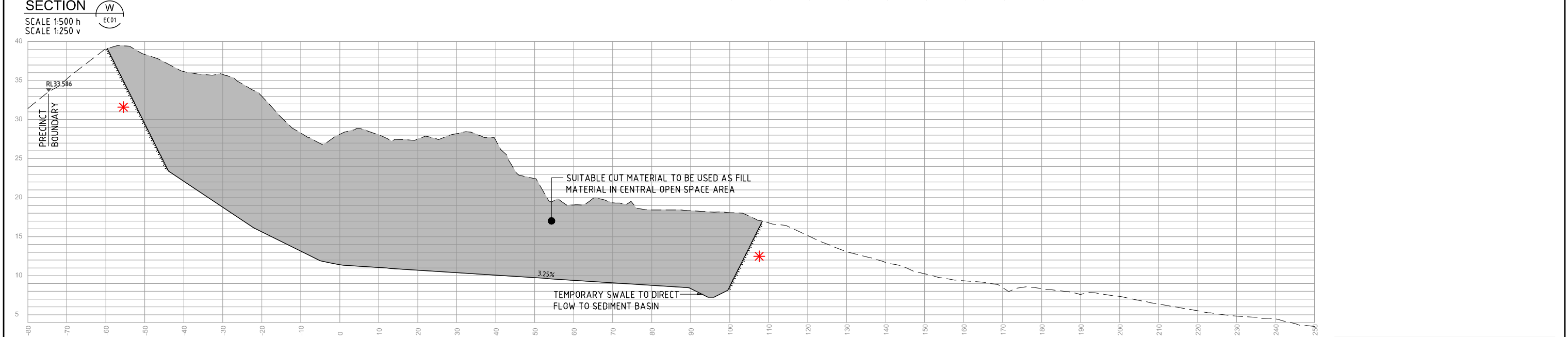
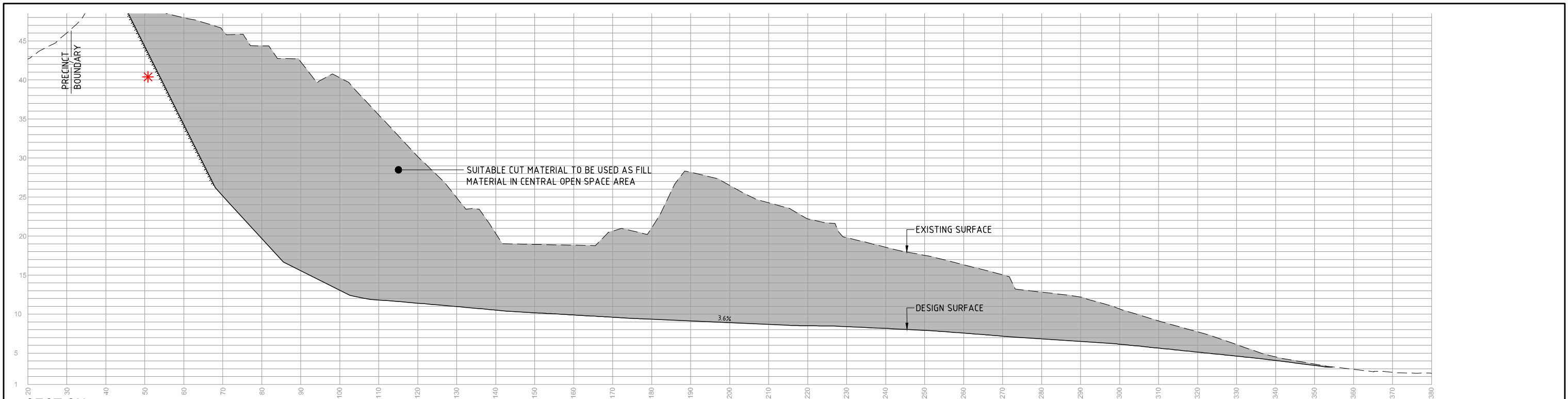
PROJECT
COBAKI, TWEED HEADS WEST
CENTRAL OPEN SPACE
BULK EARTHWORKS
CONSTRUCTION CERTIFICATE
CIVIL ENGINEERING DRAWINGS



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



TITLE					
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	YC0229-1E1-ES08	A
DRAWN	GS		11.12.13		



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.

LEGEND

	FINAL DESIGN SURFACE
	EXISTING DESIGN SURFACE
	TEMPORARY 1 in 2 BATTER
	CUT (BORROW MATERIAL)

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AS SHOWN		A1	
A	ORIGINAL ISSUE	G.S.	11.12.13
REV	DESCRIPTION	DRAWN	DATE

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



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



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DESIGN	CJE		11.12.13		
DRAWN	GS		11.12.13		
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YC0229-1E1-ES09				A	