

REFER DRG. Co11809.00-DA41

REFER DRG. Co11809.00-DA43

REFER DRG. Co11809.00-DA45

CATCHMENT A  
AREA 5.9ha

CATCHMENT B  
AREA 8.9ha

CATCHMENT C  
AREA 2.4ha

REFER DRG. Co11809.00-DA42

REFER DRG. Co11809.00-DA44

REFER DRG. Co11809.00-DA46



NSW GOVERNMENT  
Planning



STORMWATER CATCHMENT PLAN

Issued under the Environmental Planning and Assessment Act 1979

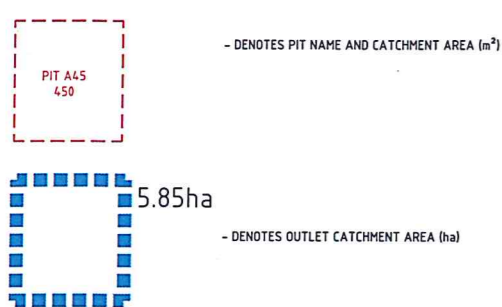
Approved Application No. SSD 12-5705

granted on the 18.04.13

Signed SW

Sheet No. 35 of 39

LEGEND:



6m 0 15 30 45 60 75m  
SCALE 1:750 AT A0 SIZE PLOT

FOR DEVELOPMENT  
APPLICATION

FOR DEVELOPMENT APPLICATION	21.11.12	A		ARCHITECT	CLIENT	PROJECT	DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
AMENDMENTS	DATE	ISSUE	AMENDMENTS	DATE	ISSUE	AMENDMENTS	M.W.	M.C.	15.10.12	A0	A5 SHOWN		Co11809.00-DA47



PROPOSED TOLL IPEC FACILITY  
GREAT WESTERN HWY/BRABHAM DRIVE  
HUNTINGWOOD WEST

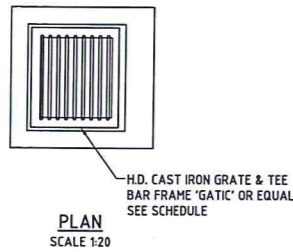


Costin Roe Consulting Pty Ltd.  
Consulting Engineers  
Level 2, 8 Windmill Street  
Wahbi Bay, Sydney NSW 2000  
Tel: (02) 9551-7000 Fax: (02) 9541-5733  
email: mail@costinroe.com.au

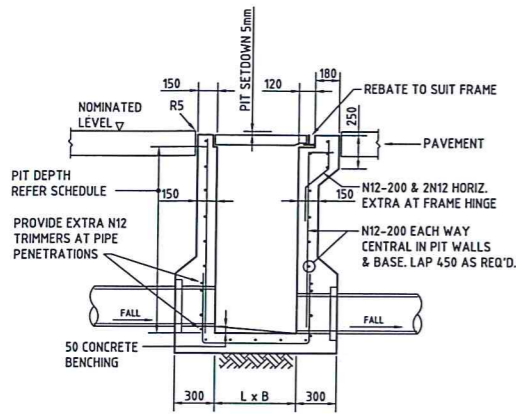


DRAWING TITLE  
STORMWATER CATCHMENT PLAN  
DRAWING No. Co11809.00-DA47

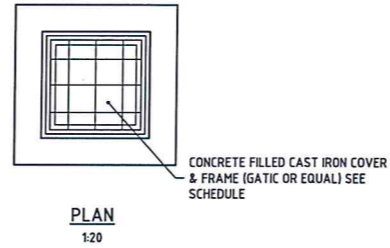
Value in Engineering and Management



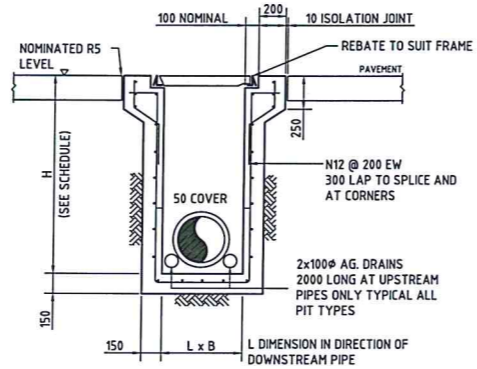
H.D. CAST IRON GRATE & TEE BAR FRAME 'GATIC' OR EQUAL SEE SCHEDULE



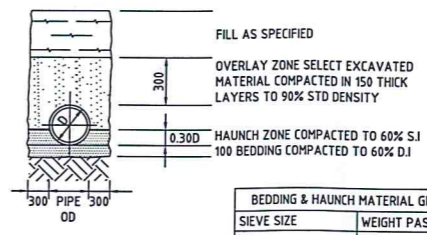
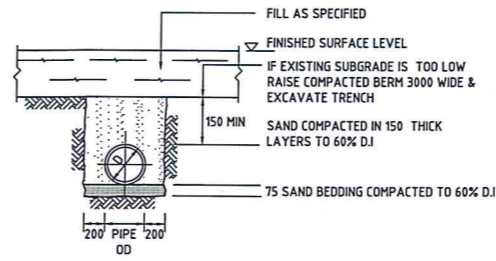
SINGLE GRATED GULLY PIT - SGGP



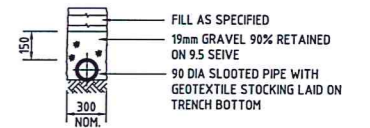
CONCRETE FILLED CAST IRON COVER & FRAME (GATIC OR EQUAL) SEE SCHEDULE



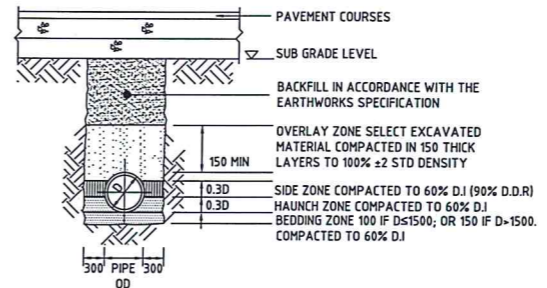
SEALED PIT - SP



BEDDING & HAUNCH MATERIAL GRADING	
SIEVE SIZE	WEIGHT PASSING(%)
19	100
2.36	100 TO 50
0.60	90 TO 50
0.30	60 TO 10
0.15	25 TO 0
0.075	10 TO 0



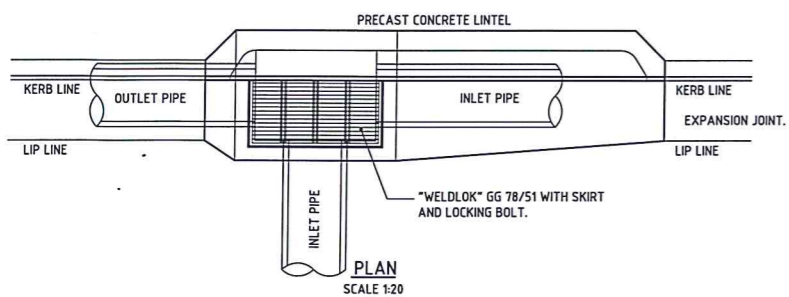
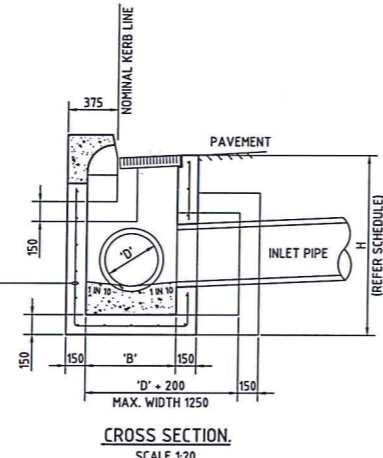
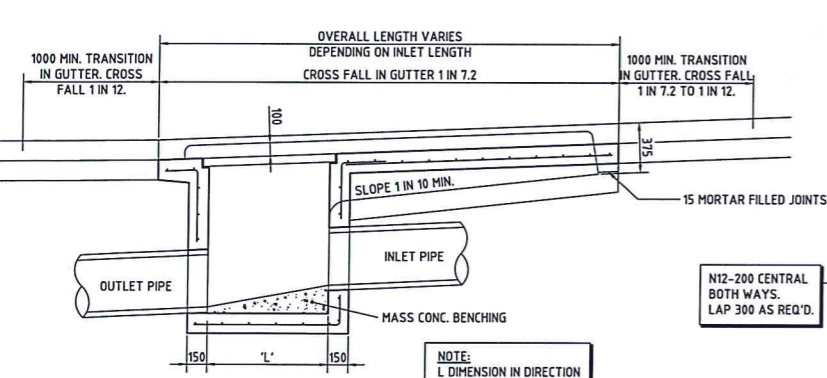
SIDE ZONE MATERIAL GRADING	
SIEVE SIZE	WEIGHT PASSING(%)
75	100
9.5	100 TO 50
2.36	100 TO 30
0.60	50 TO 15
0.075	25 TO 0



BEDDING & HAUNCH MATERIAL GRADING	
SIEVE SIZE	WEIGHT PASSING(%)
19	100
2.36	100 TO 50
0.60	90 TO 20
0.30	60 TO 10
0.15	25 TO 0
0.075	10 TO 0

SIDE ZONE MATERIAL GRADING	
SIEVE SIZE	WEIGHT PASSING(%)
75	100
9.5	100 TO 50
2.36	100 TO 30
0.60	50 TO 15
0.075	25 TO 0

SELECT FILL MATERIAL IN ACCORDANCE WITH TABLE 1 AS 3725



KERB INLET PIT - KIP

CONCRETE QUALITY					
ELEMENT	SUMP	AGGREGATE	EMPHEN	ADHESURE	F/C
		GRADE	TYPE		(MPa)
PIT	80	20	GP	NL	25

- NOTES:
- WHERE GULLY PIT IS LOCATED ON KERB RETURNS OR BULB OF CUL-DE-SACS PROVIDE CURVED PRECAST CONCRETE LINTELS.
  - SAG PITS SHALL HAVE LINTEL PLACED CENTRALLY ABOUT THE GRATE.
  - ALL REINFORCING TO HAVE 30 MIN. CLAER CONCRETE COVER.
  - FOR PITS DEEPER THAN 1200mm CLIMB RAILS SHALL BE PROVIDED.

**NSW GOVERNMENT**  
Planning

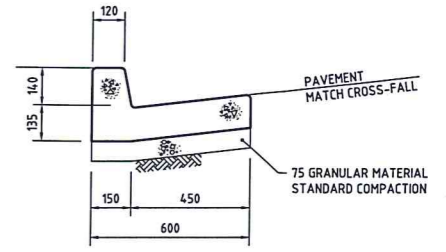
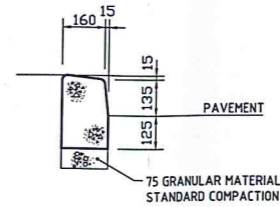
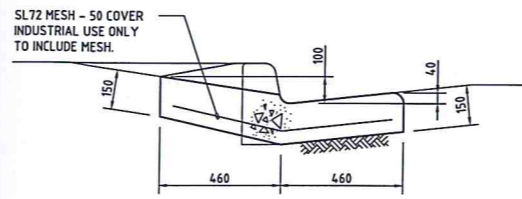
Issued under the Environmental Planning and Assessment Act 1979

Approved Application No. SSD12-5705

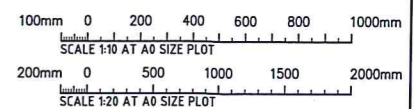
granted on the 18.04.13

Signed SW

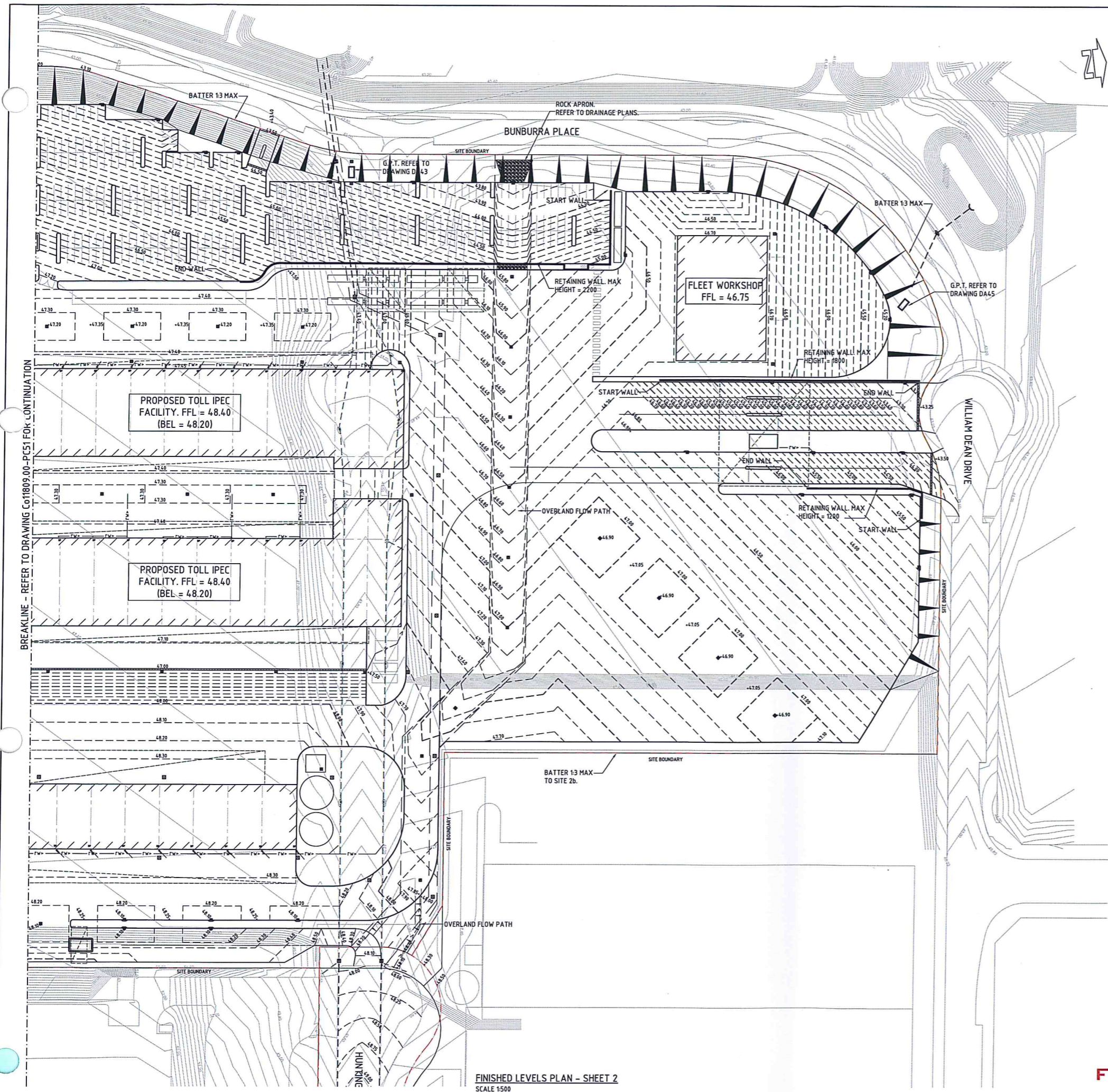
Sheet No. 36 of 39




**FOR DEVELOPMENT APPLICATION**








**NSW GOVERNMENT**  
 Planning

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No. SSD12-5705

granted on the 18-04-13











Signed sw

Sheet No. 38 of 39

**LEGEND**

LEVELS DATUM IS AHD.

EXISTING SITE LEVELS AND DETAILS BASED ON GHD DESIGN PLANS.

	- GD - GRATED DRAIN
	- SGGP - SINGLE GRATED GULLY PIT
	- SJP - SEALED JUNCTION PIT
	- KIP/G - KERB INLET PIT ON-GRADE, 1800 LINTEL
	- KIP/S - KERB INLET PIT SAG - 2400 LINTEL
	- FINISHED PAVEMENT CONTOUR (MAJOR)
	- FINISHED PAVEMENT CONTOUR (MINOR)
	- FINISHED PAVEMENT SPOT HEIGHT
	- EXISTING CONTOUR
	- EXISTING SPOT HEIGHT

**FINISHED LEVELS PLAN NOTES:**

REFER TO DRAWING DA 51 FOR FINISHED LEVELS PLAN NOTES



**FOR DEVELOPMENT APPLICATION**

AMENDMENTS	DATE	ISSUE	AMENDMENTS	DATE	ISSUE	AMENDMENTS	DATE	ISSUE
FOR DEVELOPMENT APPLICATION	21.11.12	C						
PRELIMINARY-FOR INFORMATION	08.11.12	B						
PRELIMINARY-FOR INFORMATION	07.11.12	A						

ARCHITECT

CLIENT



PROJECT

**PROPOSED TOLL IPEC FACILITY**  
 GREAT WESTERN HWY/BRABHAM DRIVE  
 HUNTINGWOOD WEST

DESIGNED: [ ] DRAWN: [ ] DATE: 15.10.12 CHECKED: [ ] SCALE: A0 AS SHOWN CAO REF: C17899-00-DA52

Costin Roe Consulting Pty Ltd.  
 Consulting Engineers  
 Level 1, 9 Wisemans Street  
 Vahls Bay, Sydney NSW 2000  
 Tel: (02) 9551-7999 Fax: (02) 9541-9778  
 email: mail@costinroe.com.au ©



DRAWING TITLE

**FINISHED LEVELS PLAN**  
 SHEET 2

DRAWING No. **C011809.00-DA52**

