

Appendix 1

Kurri Kurri TAFE**Pre Development Condition****Total Catchment**

$$\begin{aligned}
 t_c &= 0.76 A^{0.38} & L &= 0.210 \text{ km} \\
 t_c &= 0.07 \text{ hr} & S_e &= 36.000 \text{ m/km} \\
 t_c &= 4.20 \text{ min} & \text{Area } A &= 0.170 \text{ ha} \\
 & & &= 0.00170 \text{ Km}^2 \\
 t_c &= 11.25 \text{ min [using } t_c = 58 * L / (S_e^{0.2} * A^{0.1})]
 \end{aligned}$$

Catchment Characteristic

Impervious % = 6%

Pervious % = 94%

Zone: B (Below 500m AHD)

 $C_{10} = 0.35$

Say 0.35

ARI	FF _Y	C _Y = C ₁₀ * FF _Y	I (mm/hr)	Q (m ³ /s)
1	0.62	0.22	53.44	0.005
2	0.74	0.26	68.93	0.008
5	0.88	0.31	88.81	0.013
10	1.00	0.35	100.54	0.017
20	1.12	0.39	116.07	0.022
50	1.19	0.42	136.57	0.027
100	1.28	0.45	152.30	0.032

Kurri Kurri TAFE

Post Development Condition

Total Catchment

$$\begin{aligned}
 t_c &= 0.76 A^{0.38} & L &= 0.210 \text{ km} \\
 t_c &= 0.07 \text{ hr} & S_e &= 36.000 \text{ m/km} \\
 t_c &= 4.20 \text{ min} & \text{Area } A &= 0.170 \text{ ha} \\
 & & &= 0.00170 \text{ Km}^2 \\
 t_c &= 11.25 \text{ min [using } t_c = 58 * L / (s^{0.2} * A^{0.1})]
 \end{aligned}$$

Catchment Characteristic

Impervious % = 100%

Pervious % = 0%

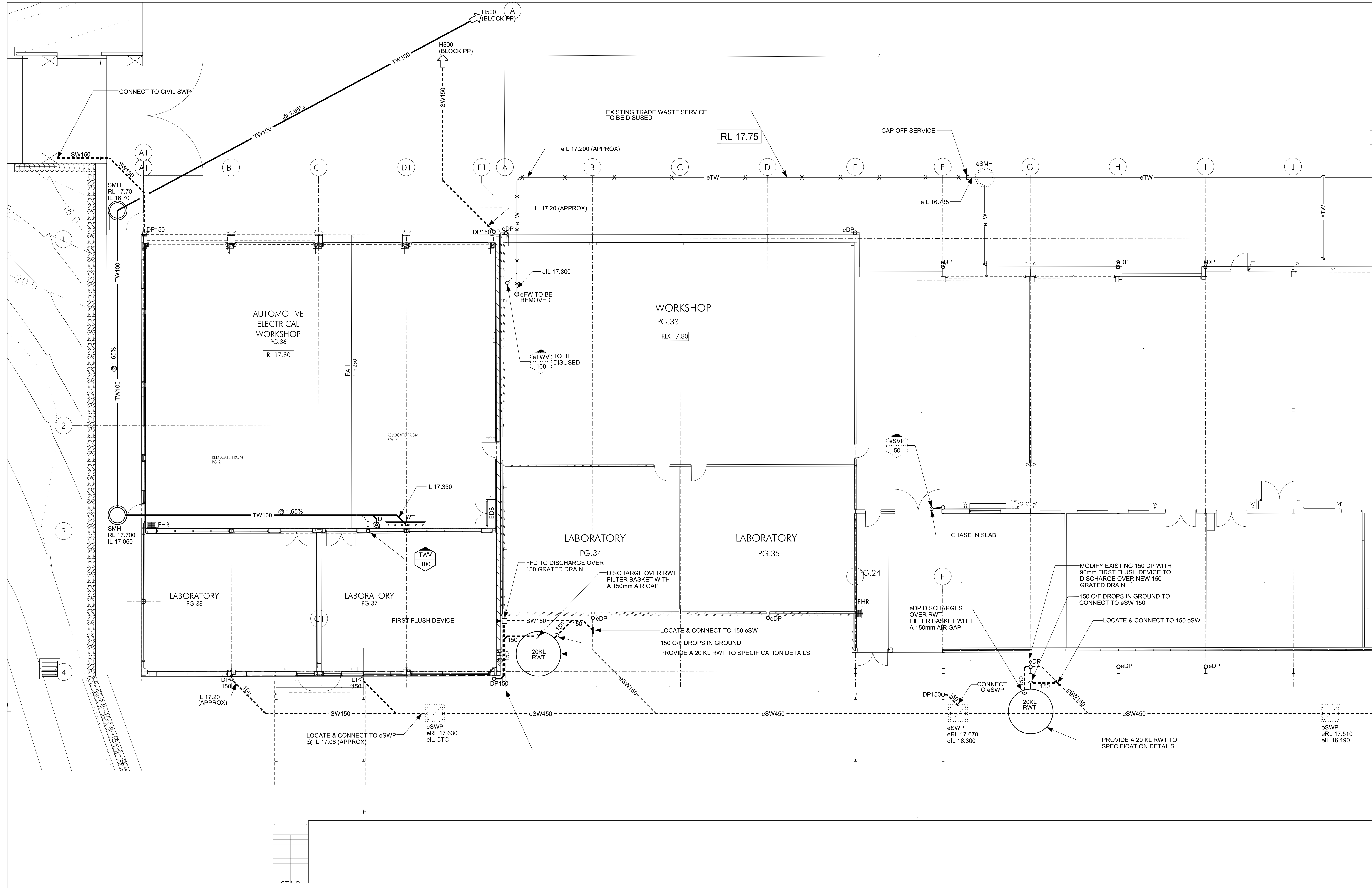
Zone: B (Below 500m AHD)

$C_{10} = 0.90$

Say 0.90

ARI	FF_Y	$C_Y = C_{10} * FF_Y$	I (mm/hr)	Q (m ³ /s)
1	0.62	0.56	53.49	0.014
2	0.74	0.67	69.00	0.022
5	0.88	0.79	88.92	0.033
10	1.00	0.90	100.65	0.043
20	1.12	1.01	116.20	0.055
50	1.19	1.07	136.73	0.069
100	1.28	1.15	152.48	0.083

Appendix 2



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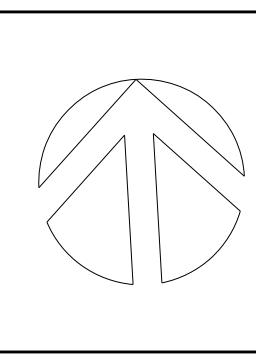
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LAURIE GLANFIELD
Director General

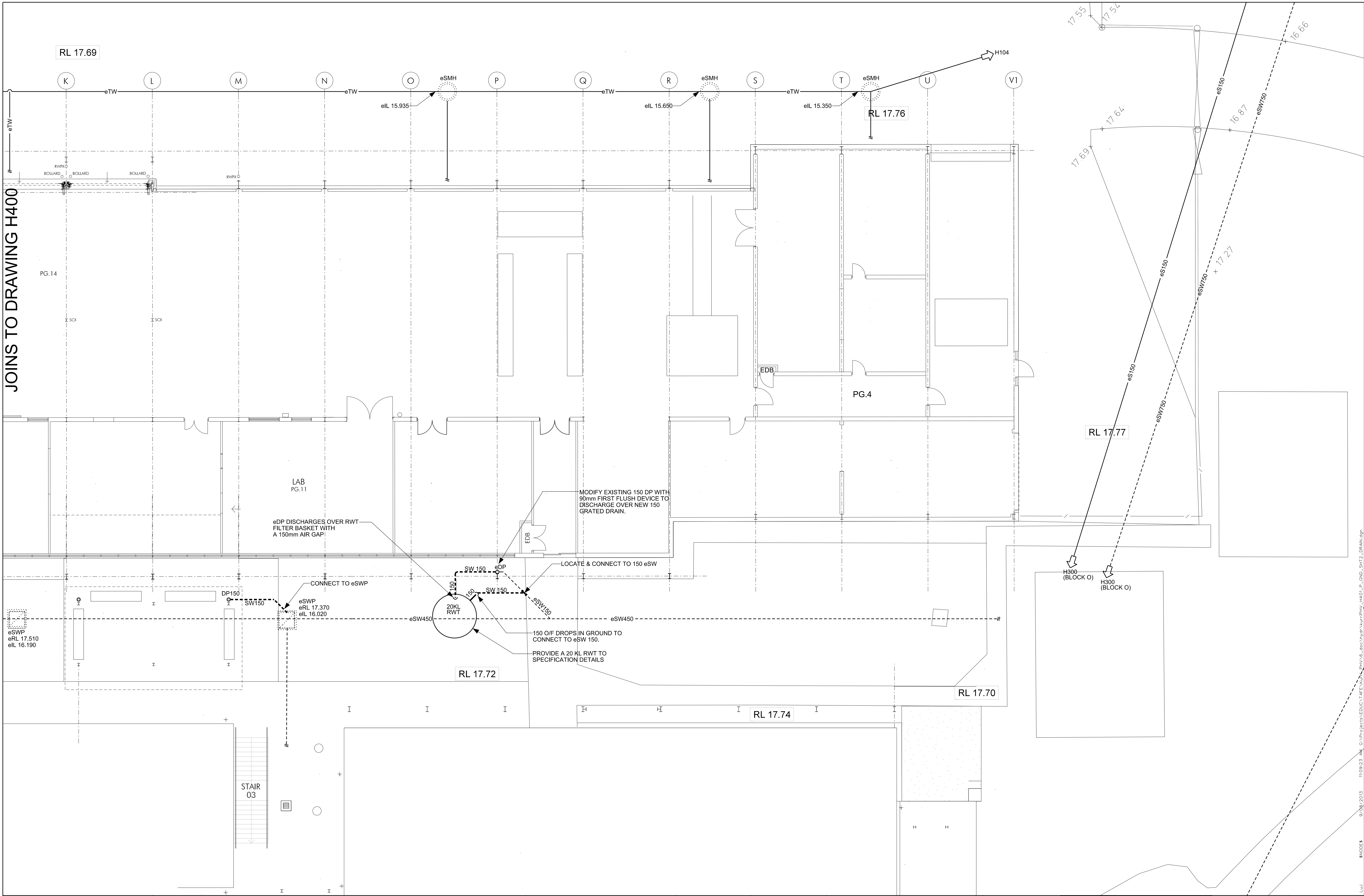


TAFE KURRI KURRI CAMPUS
PLANT & HEAVY VEHICLE
TRAINING CENTRE

HYDRAULIC SERVICES
BLOCK P
GROUND FLOOR PLAN
DRAINAGE LAYOUT SHEET 1

PLAN RM NO	
SCALES 1:100@A1	
DESIGNED R.Young	PLOT DATE 9/08/2013
DRAFTED J.Lu	VERIFIED J.Critoph

CONTRACT NUMBER	
1301026	
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LAURIE GLANFIELD
Director General

**TAFE KURRI KURRI CAMPUS
PLANT & HEAVY VEHICLE
TRAINING CENTRE**

PLAN RM NO

CONTRACT NUMBER

1301026

SHEET NO

H401

REVISION

DESIGNED

PLLOT DATE

DRAFTED

VERIFIED

R.Young

9/08/2013

J.Lu

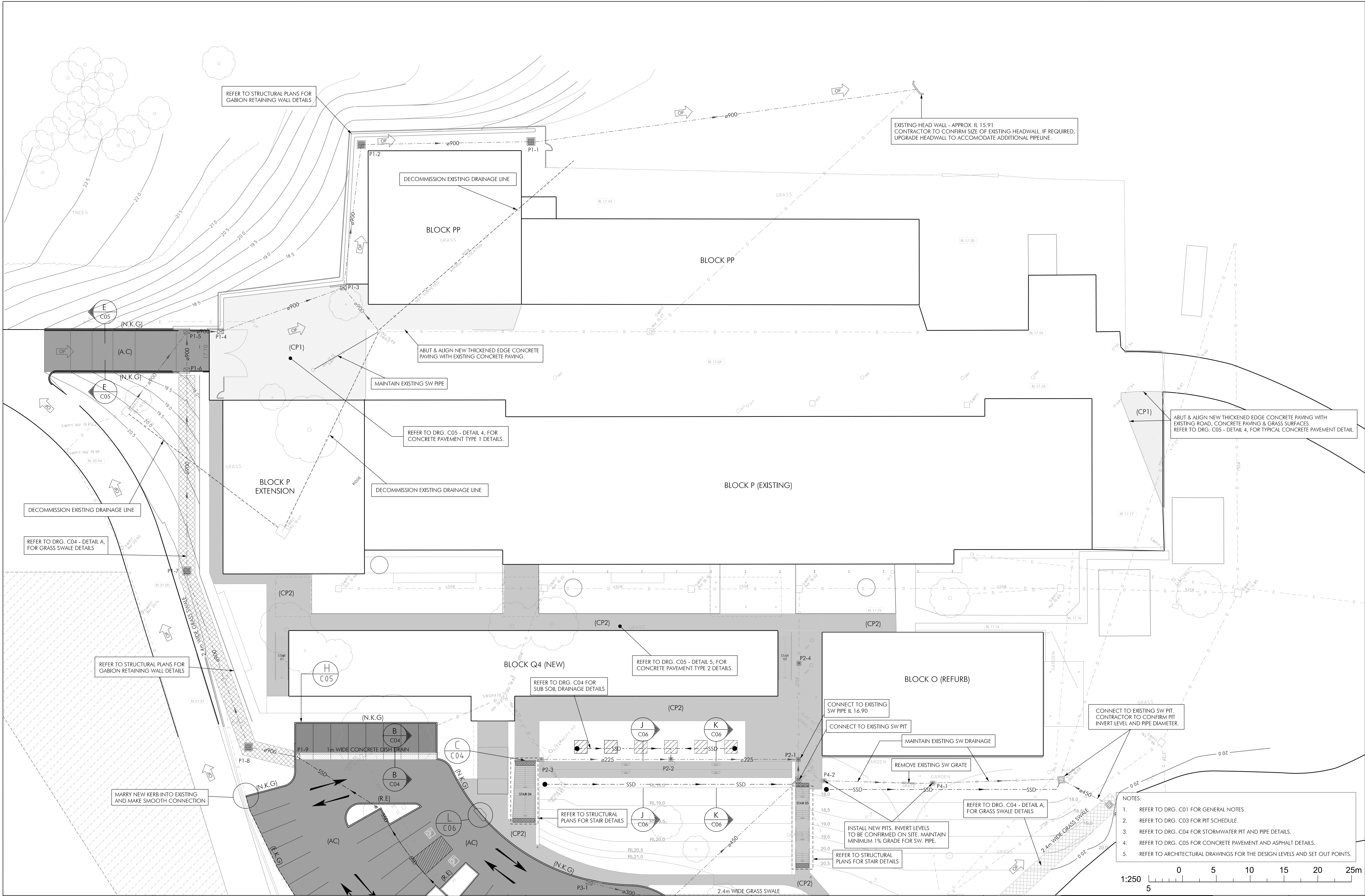
J.Critoph

HYDRAULIC SERVICES
BLOCK P
GROUND FLOOR PLAN
DRAINAGE LAYOUT SHEET 2

9/08/2013

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LEGEND

	PROPOSED SW GRATED PIT		GRASS SWALE
	KERB INLET PIT WITH 2.4m LINTEL AND ENVIPOD		OVERLAND FLOW
	PROPOSED SW PIPE (DIA. INDICATED ON PLAN)		100mm DIA. SUB-SOIL DRAINAGE / FLUSH POINT
	1m WIDE DISH DRAIN (DD)		ASPHALT CONCRETE (AC)
	NEW KERB AND GUTTER		CONCRETE PAVEMENT (CP1)
	EXISTING KERB AND GUTTER		CONCRETE PAVEMENT (CP2)

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MICHAEL COLTIS-TROTTER
Director General

**TAFE KURRI KURRI CAMPUS
PLANT AND HEAVY VEHICLE
TRAINING CENTRE**

**PROPOSED SITE LAYOUT
SHEET 1 OF 2**

PLAN RM NO

1:250@A1

DESIGNED	PLOT DATE
E. LIN	18/07/2013
DRAFTED	VERIFIED
D. LAM	J. GAN

CONTRACT NUMBER

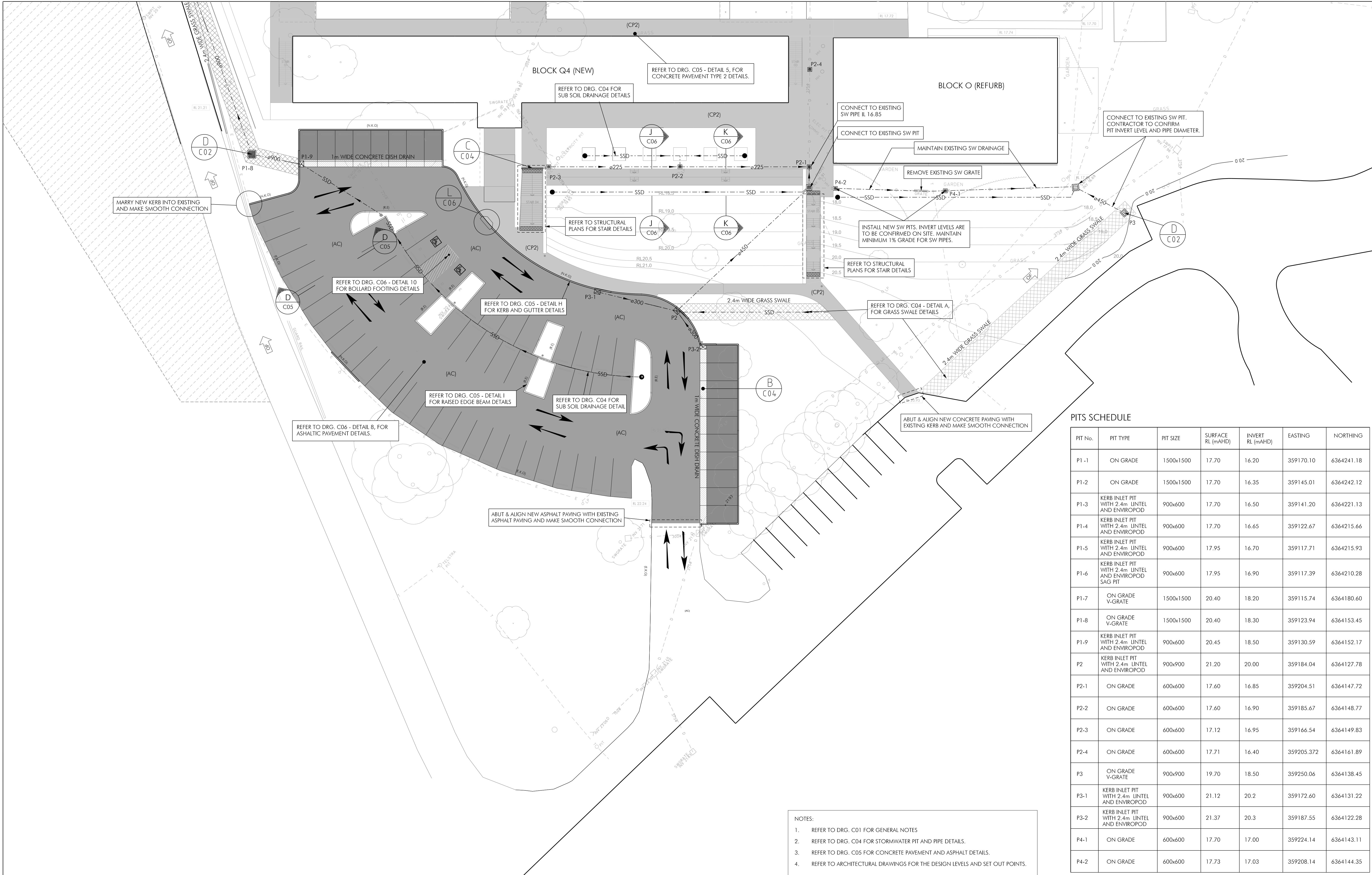
1301026

SHEET NO

C02

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PITS SCHEDULE						
PIT No.	PIT TYPE	PIT SIZE	SURFACE RL (mAHD)	INVERT RL (mAHD)	EASTING	NORTHING
P1-1	ON GRADE	1500x1500	17.70	16.20	359170.10	6364241.18
P1-2	ON GRADE	1500x1500	17.70	16.35	359145.01	6364242.12
P1-3	KERB INLET PIT WITH 2.4m LINTEL AND ENVIROPOD	900x600	17.70	16.50	359141.20	6364221.13
P1-4	KERB INLET PIT WITH 2.4m LINTEL AND ENVIROPOD	900x600	17.70	16.65	359122.67	6364215.66
P1-5	KERB INLET PIT WITH 2.4m LINTEL AND ENVIROPOD	900x600	17.95	16.70	359117.71	6364215.93
P1-6	KERB INLET PIT WITH 2.4m LINTEL AND ENVIROPOD SAG PIT	900x600	17.95	16.90	359117.39	6364210.28
P1-7	ON GRADE V-GRATE	1500x1500	20.40	18.20	359115.74	6364180.60
P1-8	ON GRADE V-GRATE	1500x1500	20.40	18.30	359123.94	6364153.45
P1-9	KERB INLET PIT WITH 2.4m LINTEL AND ENVIROPOD	900x600	20.45	18.50	359130.59	6364152.17
P2	KERB INLET PIT WITH 2.4m LINTEL AND ENVIROPOD	900x900	21.20	20.00	359184.04	6364127.78
P2-1	ON GRADE	600x600	17.60	16.85	359204.51	6364147.72
P2-2	ON GRADE	600x600	17.60	16.90	359185.67	6364148.77
P2-3	ON GRADE	600x600	17.12	16.95	359166.54	6364149.83
P2-4	ON GRADE	600x600	17.71	16.40	359205.372	6364161.89
P3	ON GRADE V-GRATE	900x900	19.70	18.50	359250.06	6364138.45
P3-1	KERB INLET PIT WITH 2.4m LINTEL AND ENVIROPOD	900x600	21.12	20.2	359172.60	6364131.22
P3-2	KERB INLET PIT WITH 2.4m LINTEL AND ENVIROPOD	900x600	21.37	20.3	359187.55	6364122.28
P4-1	ON GRADE	600x600	17.70	17.00	359224.14	6364143.11
P4-2	ON GRADE	600x600	17.73	17.03	359208.14	6364144.35

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LEGEND

PROPOSED SW GRATED PIT

KERB INLET PIT WITH 2.4m LINTEL AND ENVIROPOD

PROPOSED SW PIPE (DIA. INDICATED ON PLAN)

1m WIDE DISH DRAIN (DD)

(N.K.G.) / (E.K.G.) NEW KERB AND GUTTER / EXISTING KERB AND GUTTER

(R.E.) RAISED EDGE BEAM

GRASS SWALE

OVERLAND FLOW

100mm DIA. SUB-SOIL DRAINAGE / FLUSH POINT

ASPHALT CONCRETE (AC)

CONCRETE PAVEMENT (CP1)

CONCRETE PAVEMENT (CP2)

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Michael Coutts-Trotter
Director General

TAFE KURRI KURRI CAMPUS
PLANT AND HEAVY VEHICLE
TRAINING CENTRE

PROPOSED SITE LAYOUT
SHEET 2 OF 2

PLAN RM NO

CONTRACT NUMBER

SCALES

1:250@A1

DESIGNED

E. LIN

PLOT DATE

18/07/2013

DRAFTED

D. LAM

VERIFIED

J. GAN

SHEET NO

C03

REVISION

-

A1

0 10 20 30 40 50 60 70 80 90 100

USE FIGURED DIMENSIONS IN PREFERENCE TO SCALING
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