Verify all dimensions prior to construction — Do not scale

SCHEDULE OF INVERT LEVELS FOR STORMWATER DRAIN				
DRAIN NOTATION	UPSTREAM INVERT LEVEL (m)	DOWNSTREAM INVERT LEVEL (m)	LENGTH OF DRAIN (m)	TYPE OF DRAIN
SW1 — SW2	2007.38	2006.428	94.0	A
SW1A — SW1B	2007.12	2006.856	35.0	PCC PIPE 150ø
SW2 — SW3	2008.428	2008.22	30.0	A
SW4 — SW3	2006.74	2006.11	94.0	A
SW4D — SW4A	2006.40	2006.20	81.0	PCC PIPE 150ø
SW4C — SW4B	2006.40	2006.20	40.0	PCC PIPE 150ø
SW3 — SW5	2006.11	2005.94	20.0	A
SW5A — SW5	2008.80	2005.94	40.0	A (CASCADED)
SW5 — SW24	2005.94	2004.33	14.0	600mmø PCC PIPE
SW1 — SW6	2007.38	2006.75	94.0	A
SW6 — SWMH1	2006.75	2006.55	30.0	A
SWMH1 — SW7	2006.05	2006.00	5.0	PCC PIPE 450ø
SW4 — SWMH1	2006.74	2006.05	94.0	A
SW7 — T.C.D	2006.00	*	40.0	C
SW9 — SW10	2004.76	2004.40	66.80	A
SW10 — SW23	2004.48	2004.40	12.0	A
SW12 — SW23	2004.76	2004.46	60.0	A
SW23 — SW24	2004.40	2004.33	25.0	A
SW24 — SW25	2004.23	2004.09	21.0	C
SW25 — SW26	2004.23	2004.09	28.0	C
SW26 — SWMH3	2004.09	2003.92	34.0	C
SW28 — SW29	2004.60	2004.43	43.0	A
SW29 — SWMH3	2004.43	2004.10	20.0	A
SWMH3 — SWMH4	2003.75	2003.03	40.0	600ø CULVERT
SWMH4 — T.C.D	2002.03	*	35.0	600ø CULVERT
SW9A — SW11	2004.76	2004.19	76.90	A
SW11 — T.C.D	2004.19	*	50.0	A
SW12 — SW13	2004.76	2004.27	74.0	A
SW13 — SW13B	2003.91	2003.71	30.0	PCC PIPE 450ø
SW13B — T.C.D	2003.71	*	52.0	B
SW14 — SW13	2004.61	2004.24	56.0	A
SW15B— SWMH2	2004.42	2004.02	56.0	A
SW15 — SWMH2	2004.50	2003.93	85.0	A
SWMH2 — SW15A	2003.43	2003.40	5.0	PCC PIPE 450ø
SW15A — T.C.D	2003.40	*	60.0	B
SW33A — SW33A	1998.85	1998.15	130.0	IBD
SW33A — T.C.D	1998.15	*	40.0	B
SW15 — SW17	2004.50	2004.45	10.0	A
SW17 — SW18	2004.45	2004.35	20.0	A
SW18A — SW18C	2004.37	2004.15	33.0	A
SW18B — SW18C	2004.37	2004.15	33.0	A
SW18C — SW18D	2004.15	2004.04	15.85	PCC PIPE 200ø
SW18 — SW18D	2004.35	2004.04	60.0	B
SW19A —SW19	2005.50	2004.50	30.0	A
SW19 —SW22	2003.92	2003.77	30.0	B
SW20 —SW22	2004.50	2004.20	46.0	A
SW22 —SW21	2003.77	2003.74	5.0	B
SW21 — SWMH6	2003.74	2003.73	2.37	B
SW34 —SW35	1998.85	1998.34	60.0	A
SW35 —SW37	1998.34	1998.30	7.0	A
SW37 —SW38	1998.30	1998.08	44.0	B
SW38 —SWMH5	1998.08	1997.70	75.0	B
SW37A—SW37B	2002.13	*		SHALLOW DRAIN
SW37A—SW37	2002.05	1998.30	50.6	A
SWMH5 — SW39	1997.70	1997.62	15.0	PCC PIPE 450ø
SW39 —T.C.D	1997.62	*	32.0	A
SW36 — SW35	2003.10	2001.30	84.0	A
SW23 — SW24A	2004.40	TCD	17.0	A
SW28A — SW23	2004.60	2004.40	22.0	A
SWMH6 — TCD	2003.73	*	30.28	PCC PIPE 600ø

SCHEDULE OF SETTING OUT POINTS		
SOP NOTATION	EASTINGS	NORTHINGS
SW1	199395.85	9904708.26
SW1A	199393.43	9904698.93
SW1B	199417.97	9904671.40
SW2	199444.90	9904626.59
SW3	199414.93	9904606.46
SW4	199367.57	9904687.25
SW4A	199354.69	9904708.71
SW4B	199331.61	9904747.12
SW4C	199347.65	9904750.22
SW4D	199370.23	9904691.86
SW5	199401.52	9904600.35
SW5A	199421.49	9904567.07
SW6	199346.79	9904790.01
SW7	199313.23	9904776.69
SW9	199359.30	9904690.24
SW9A	199356.90	9904694.23
SW10	199395.72	9904632.95
SW11	199317.30	9904760.14
SW12	199353.65	9904681.39
SW13	199310.28	9904744.45
SW13B	199305.42	9904752.63
SW14	199265.17	9904718.48
SW15	199293.37	9904646.86
SW15A	199244.40	9904724.37
SW15B	199304.17	9904750.06
SW17	199298.65	9904638.11
SW18	199300.47	9904620.60
SW18A	199311.05	9904612.96
SW18B	199345.04	9904556.38
SW18C	199328.04	9904584.67
SW18D	199331.37	9904569.17
SW19	199342.10	9904546.05
SW19A	199352.71	9904526.95
SW20	199293.09	9904570.07
SW21	199313.56	9904528.91

SCHEDULE OF SETTING OUT POINTS		
SOP NOTATION	EASTINGS	NORTHINGS
SW22	199316.89	9904530.79
SW23	199383.53	9904626.04
SW24	199393.17	9904612.62
SW25	199375.90	9904589.66
SW26	199391.89	9904573.05
SW28A	199363.66	9904617.61
SW29	199334.86	9904600.30
SW33	199286.53	9904633.66
SW33A	199228.12	9904729.20
SW34	199306.43	9904600.54
SW35	199258.39	9904570.53
SW36	199302.36	9904492.43
SW37	199250.26	9904566.85
SW37A	199277.11	9904523.86
SW37B	199297.38	9904489.42
SW38	199212.62	9904544.18
SW39	199141.35	9904618.08
SWMH1	199316.70	9904773.80
SWMH2	199250.58	9904716.99
SWMH3	199361.81	9904555.45
SWMH4	199337.85	9904520.22
SWMH5	199177.27	9904603.01
SWMH6	199303.03	9904525.80

SCHEDULE OF INVERT LEVELS FOR STORMWATER DRAIN				
DRAIN NOTATION	UPSTREAM INVERT LEVEL (m)	DOWNSTREAM INVERT LEVEL (m)	LENGTH OF DRAIN (m)	TYPE OF DRAIN
SW28A — SW23	2004.60	2004.40	22.0	A
SW23 — SW24A	2004.40	TCD	17.0	A
SW5 — SW24	2005.94	2004.33	14.0	A
SW24 — SW25	2004.23	2004.09	21.0	C
SW25 — SW26	2004.23	2004.09	28.0	C

NOTE: SW24 — 1m x 1m MANHOLE MADE OF CONCRETE FILLED BLOCKWORK

SETTING OUT COORDINATES AT PSC PLATFORM		
SOP No.	EASTINGS	NORTHINGS
SOP 1	199402.029	9904595.351
SOP 2	199417.729	9904569.176
SOP 3	199420.845	9904564.108
SOP 4	199423.524	9904566.496

DRAIN SIZES.
TYPE A — 300mm WIDE x 150mm DEEP (min)
TYPE B — 400mm WIDE x 200mm DEEP (min)
TYPE C — 500mm WIDE x 250mm DEEP (min)
* —TO BE DETERMINED ON SITE
T.C.D — TO CATCHMENT DRAIN/CULVERT

NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
2. ALL LEVELS ARE IN METRES AND BASED ON A LOCAL DATUM.
3. THIS DRAWING IS TO BE READ IN CONJUCTION DRGS. Nos.—
   2571-101-C-PP-565 (CATCHMENT DRAINAGE)
   2571-101-C-PP-568 (CATCHMENT DRAINAGE—CHANNEL DETAILS),
   2571-101-C-SF-006 (STORM WATER DRAINAGE LAYOUT)
   2571-101-C-PP-560 (EXTERNAL FINISHED SURFACES LAYOUT)
   2571-101-C-CS-913 (CULVERT DETAILS)
   2571-101-C-CS-903 (MANHOLE DETAILS)
   2571-101-C-SS-601 (SUBSURFACE DRAINAGE—FOR SUB—STATION)
4. ALL RECTANGULAR SECTION DRAINS WITHIN THE POWER STATION HAVE METAL GRATINGS.

LEGEND
- SB STILLING BASIN
- C12 BOX CULVERT WITH HEADWALLS
- CATCHMENT DRAINAGE
- SWMH1 STORMWATER DRAIN WITH MANHOLE
- C13A PIPE CULVERT WITH HEAD WALLS
- SW15 — STORMWATER DRAINAGE NOTATION
- PCC — PRECAST CONCRETE
- B — DRAIN POINT
- D.O.S — DETERMINED ON SITE
- METAL GRATING
- 1998.90 — FINISHED EARTHWORKS LEVEL IN METRES

AS BUILT

Rev	Reason	By	Chk	Appr.	Date
Z	ISSUED AS BUILT	PMN	EGG	ADP	OCT. '03

Scales AS SHOWN | Drawn PMN | Designed ERW
Date MAR. '99 | CAD Ref 553—Z | Checked AM

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Sub-Consultants
Howard Humphreys
Consulting Engineers
PB Kennedy & Donkin Limited

OLKARIA II GEOTHERMAL POWER PROJECT
POWER STATION INFRUSTRUCTURE
STORM WATER DRAINAGE
LAYOUT AND DETAILS

Drawing 2571-101-C-PP-553
Revision Z

BASED ON XREF FILES
1. PPSXR5X6

LAYOUT
SCALE 1

25 0 25 50 75 100m
SCALE 1

SIGNATURES		
Client		
Design		
Qld Construction		
As built	17.10.03	Z