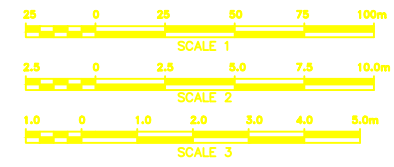


Verify all dimensions prior to construction - Do not scale

- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
  2. ALL LEVELS IN METRES AND BASED ON A LOCAL CONTROL POINT GL2.
  3. ALL RETICULATION PIPES ARE 200mm NOMINAL BORE (INTERNAL DIAMETER) STEEL UNLESS SHOWN OTHERWISE.
  4. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH DRG. Nos. 2571-101-C-PP-550 (RAW & POTABLE WATER SUPPLY), 2571-101-C-PP-554 (WATER MAINS VALVE CHAMBERS - SHEET 1 OF 2.) 2571-101-C-PP-556 (NODE CONNECTION DETAILS), 2571-101-C-CS-906 (PIPE BENDING DETAILS), 2571-101-C-CS-917 (ANCHOR BLOCK DETAILS).
  5. ALL FIRE HYDRANTS ARE MARKED USING THE MARKER POST.

- LEGEND:**
- FIRE HYDRANT ON DN200 STEEL PIPE
  - GATE VALVE
  - DN 250 STEEL PIPE FIRE FIGHTING WATER MAINS FROM RESERVOIR
  - TERMINAL POINT INCLUDING BLANK FLANGE
  - NODE NUMBER
  - HORIZONTAL BEND WITH ANGLE.
  - VALVE CHAMBER (SOP GIVEN FOR THE INTERSECTION OF THE DIAGONALS)



**AS BUILT**

Z ISSUED AS BUILT PMN EGG ADP OCT. '03  
 Rev Reason By Chk Appr. Date  
 Scales AS SHOWN Drawn PMN Designed AKB  
 Date MAR.99 CAD Ref 551-Z Checked AM

Client

The Kenya Electricity Generating Company Ltd.  
 Silima Plaza, Kolobot Road, Parklands P.O. Box 47836 Nairobi, KENYA  
 Fax: +254-2-248848

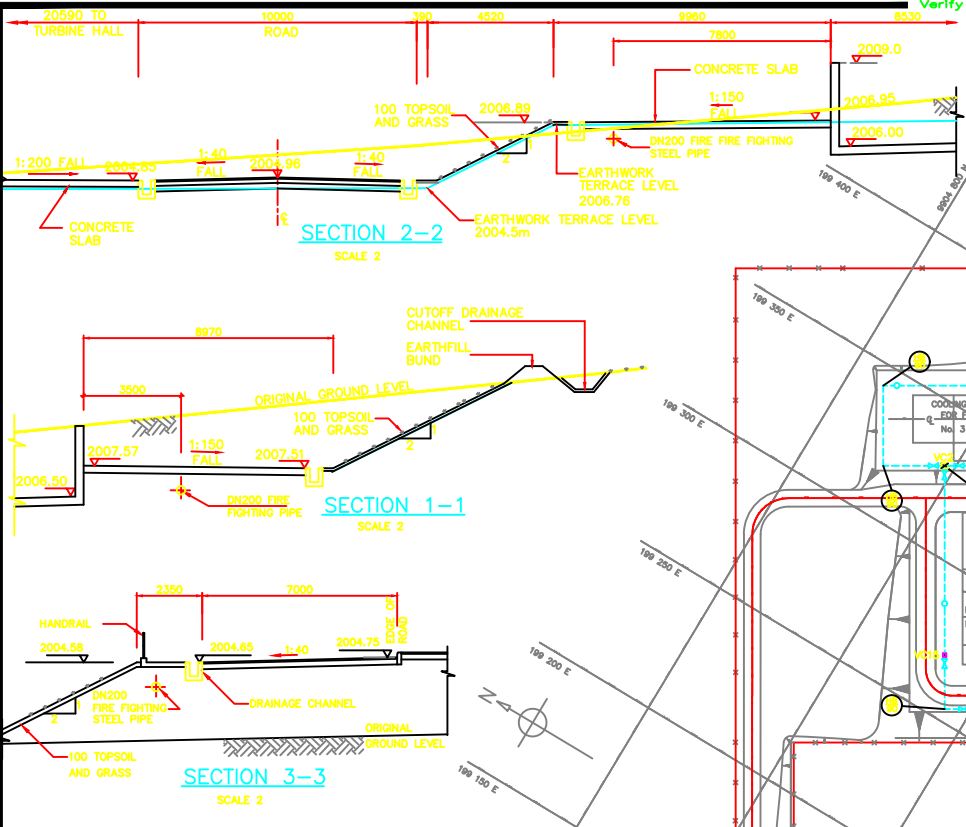
Consultants

**SINCLAIR KNIGHT MERZ**  
 Sinclair Knight Merz Ltd.

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

**OLKARIA II GEOTHERMAL POWER PROJECT**  
 POWER STATION INFRASTRUCTURE SERVICES LAYOUT: FIRE MAIN WATER SUPPLY AND RETICULATION

Drawing 2571-101-C-PP-551 Revision Z



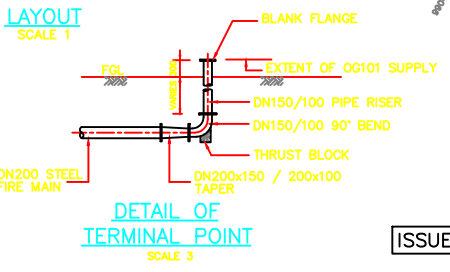
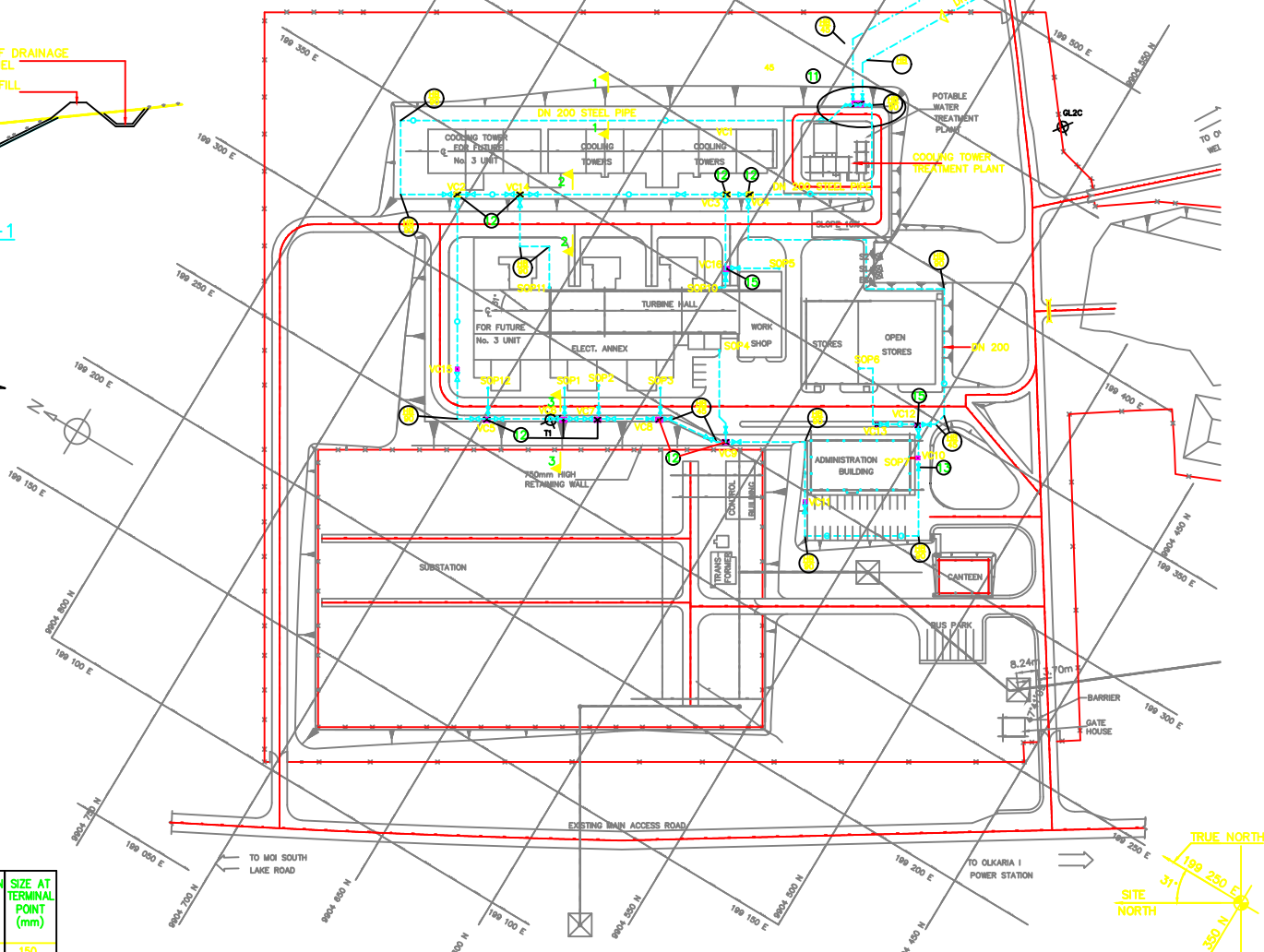
**VALVE CHAMBER SETTING OUT TABLE - DIMs (m) WITH RESPECT TO SOP-X (0,0)**

VALVE CHAMBER No.	SITE NORTH	SITE EAST	CHAMBER SIZE
VC1	199,815	305,178	4.5m x 2.0m
VC2	305,059	275,843	2.4m x 1.7m
VC3	200,212	275,843	2.4m x 1.7m
VC4	191,242	275,843	2.4m x 1.7m
VC5	293,555	188,123	2.4m x 1.7m
VC6	283,770	188,123	2.4m x 1.7m
VC7	250,470	188,123	2.4m x 1.7m
VC8	226,470	188,123	2.4m x 1.7m
VC9	200,578	179,446	2.4m x 1.7m
VC10	173,249	125,764	1.2m x 1.2m
VC11	189,734	158,140	1.2m x 1.2m
VC12	125,854	189,931	1.7m x 1.7m
VC13	141,756	188,181	1.2m x 1.2m
VC14	280,656	275,843	2.4m x 1.7m
VC15	305,059	207,846	1.2m x 1.2m
VC16	1200,211	1246,853	1.7m x 1.7m

**STANDPIPES SETTING OUT TABLE**

SOP	TRUE NORTH CO-ORDINATES	SITE NORTH	SITE EAST	STANDPIPE LOCATION (CLOSE TO)	ELEVATION OF TERMINAL POINT (m ASL)	SIZE AT TERMINAL POINT (mm)
1	199286.22	8904678.96	263.131	201.47	#2 UNIT TRANSFORMER	2005.25 150
2	199293.92	8904868.07	350.02	201.47	STATION TRANSFORMER	2005.25 150
3	199305.43	8904846.99	226.02	200.47	#1 UNIT TRANSFORMER	2005.25 150
4	199329.77	8904634.83	203.07	215.07	WEST OF POWERHOUSE	2005.25 150
5	199369.16	8904631.39	179.83	247.07	WORKSHOP	2005.25 100
6	199351.97	8904584.60	148.57	208.23	STORES	2005.25 100
7	199332.26	8904549.48	173.25	128.62	ADMIN. BUILDING	2005.25 100
10	199350.83	8904647.44	203.02	239.62	EAST OF POWERHOUSE	2005.25 150
11	199316.71	8904704.22	269.26	239.62	FUTURE #3 UNIT	2005.25 150
12	199270.88	8904704.49	283.12	200.47	FUTURE #3 UNIT	2005.25 150

Client	Design	Issued	Construction	As built
				17.10.03



**ISSUED FOR CONSTRUCTION**

BASED ON XREF FILES  
 PPSXR5X5