



PNG POWER Ltd

PO Box 1105 BOROKO NCD, Papua New Guinea

QUOTATION NO.: E4356 / 2023

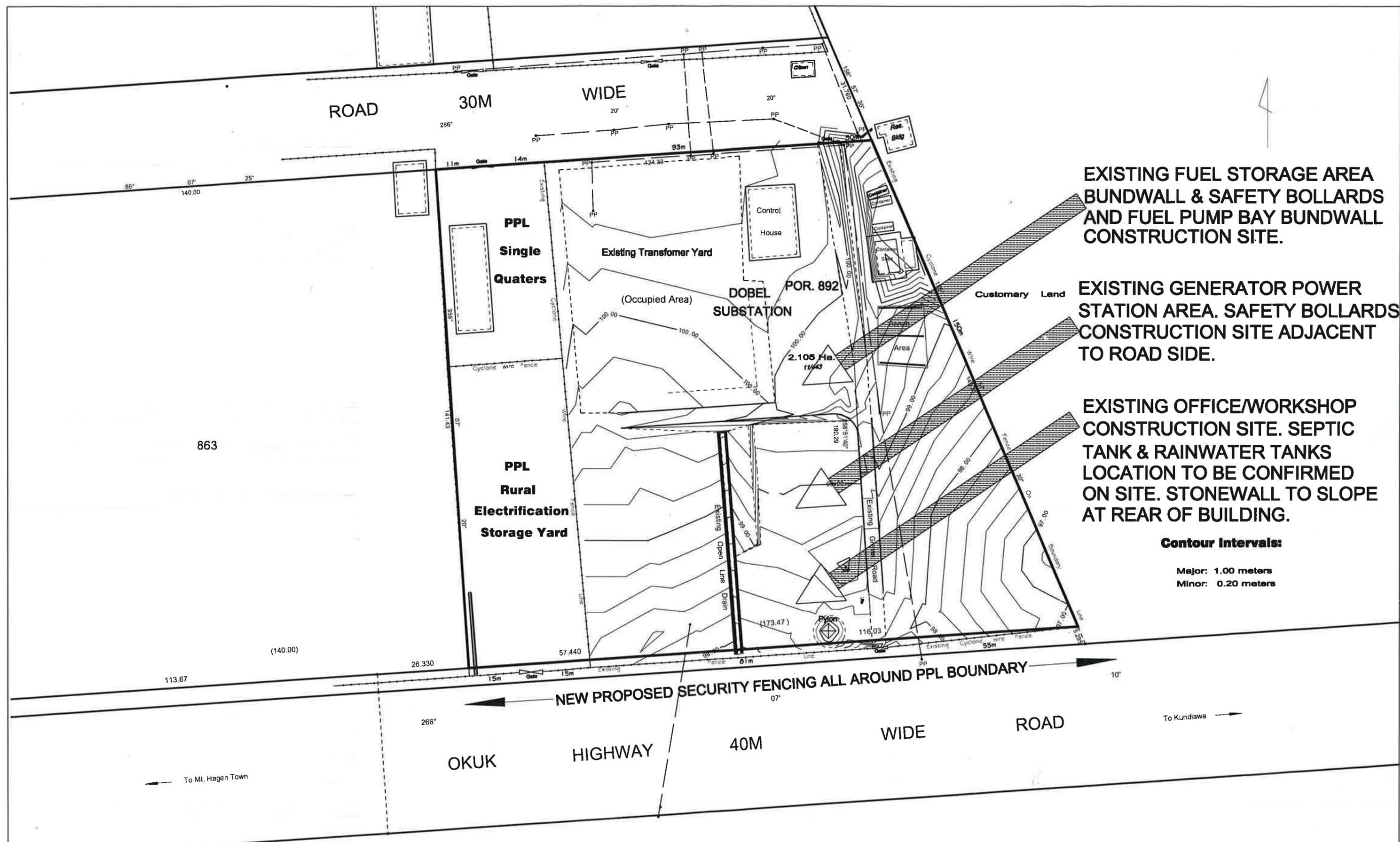
CONSTRUCTION OF FUEL BUNDWALL AND ASSOCIATED CIVIL WORKS FOR THE NEW 8MW POWER STATION AT DOBEL, W.H.P., MT. HAGEN.

DRAWING INDEX

SHEET NO.	DWG NO.	TITLE
Sheet 00 of 05	GPC-DPS-C03	Cover & Drawing Index
Sheet 01 of 05	GPC-DPS-C03	General Site Layout Plan
Sheet 02 of 05	GPC-DPS-C03	Associated Civil Works Site Layout Plan
Sheet 03 of 05	GPC-DPS-C03	Fuel Bundwall and Safety Bollards Plan and Details
Sheet 04 of 05	GPC-DPS-C03	Rainwater Tanks Foundation Plan and Details
Sheet 05 of 05	GPC-DPS-C03	Septic Tank, Absorbption Pit & Stonewall Plan and Details

FOR QUOTATION

Prepared By:	TLC		Location	DOBEL POWER STATION, W.H.P.
Checked By:	CTO/CCE		Title	COVER & DRAWING INDEX
Checked By:			A1	
Endorsed By:	MGP		Number	GPC-DPS-C03
Approved By:	AGMAD		Revision	Sheet 00 of 05



EXISTING FUEL STORAGE AREA BUNDWALL & SAFETY BOLLARDS AND FUEL PUMP BAY BUNDWALL CONSTRUCTION SITE.

EXISTING GENERATOR POWER STATION AREA. SAFETY BOLLARDS CONSTRUCTION SITE ADJACENT TO ROAD SIDE.

EXISTING OFFICE/WORKSHOP CONSTRUCTION SITE. SEPTIC TANK & RAINWATER TANKS LOCATION TO BE CONFIRMED ON SITE. STONEWALL TO SLOPE AT REAR OF BUILDING.

Contour Intervals:
 Major: 1.00 meters
 Minor: 0.20 meters

NEW PROPOSED SECURITY FENCING ALL AROUND PPL BOUNDARY

FOR QUOTATION

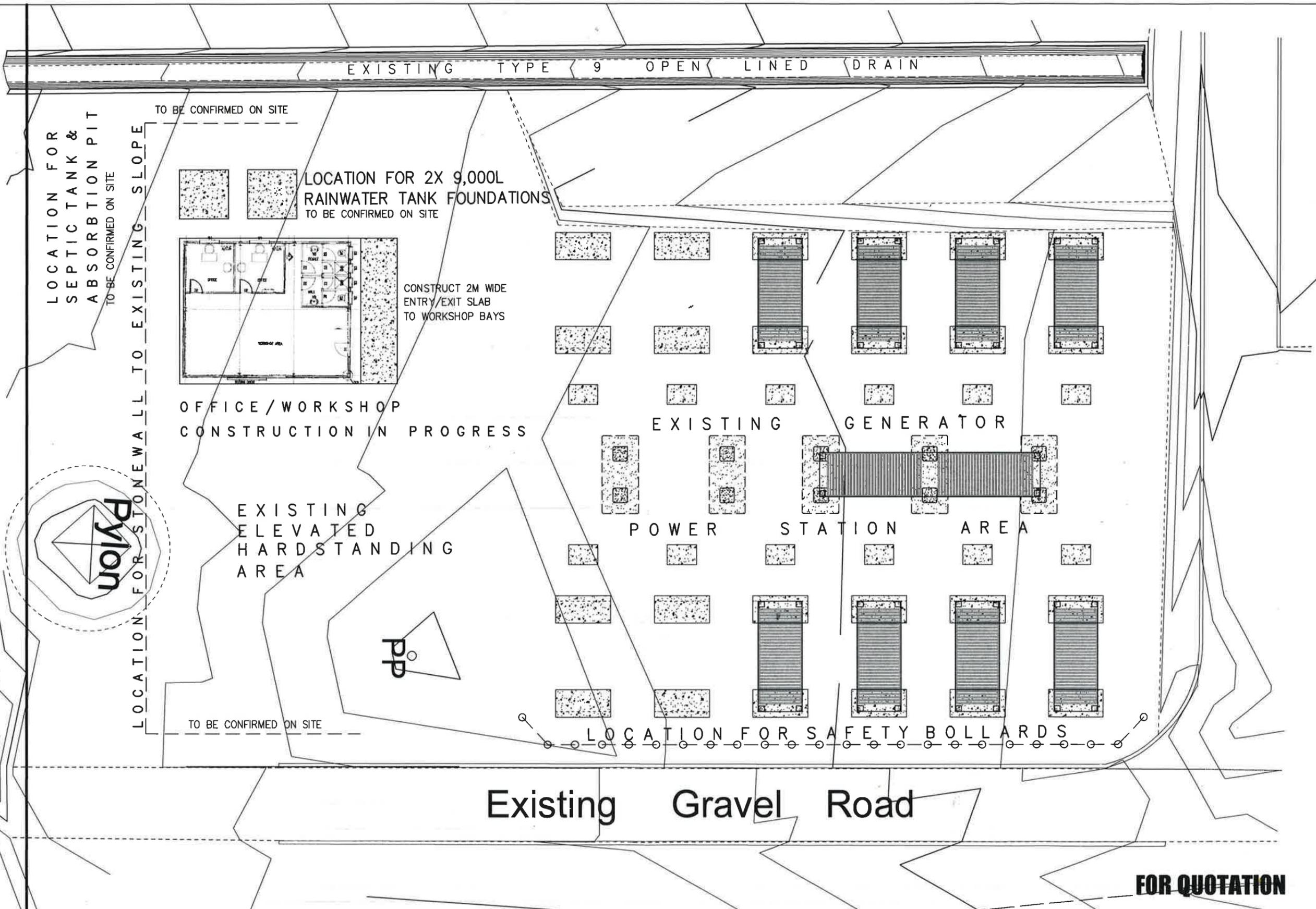
CAD Filename	Rev.	Revision	By	Chk'd	Date
H:/2023 PROJECTS/ DOBEL / 8MW POWER STATION/ CIVIL WORKS					
Date Plotted:	Scale:				
SEPTEMBER, 2023	1:500				



PNG POWER Ltd
 P. O. Box 1105, BOROKO 111. NCD. Papua New Guinea
 Telephone: (675) 324 3317
 Facsimile: (675) 323 4982 E-mail: oole@pngpower.com.pg

Drawn	ST&D	Location	DOBEL POWER STATION, W.H.P.
Designed	TLC	Title	GENERAL SITE LAYOUT PLAN
Checked	CTO/CCE	A1	
Endorsed	MGR <i>[Signature]</i>	Number	GPC-DPS-C03
Approved	AGMAD	Revision	
			Sheet 01 OF 05

EXISTING CHAINMESH FENCELINE



CAD Filename	Rev.	Revision	By	Chk'd	Date
H:/2023 PROJECTS/ DOBEL / BMW POWER STATION/ CIVIL WORKS					
Date Plotted:	Scale:				
SEPTEMBER, 2023	1 : 100				

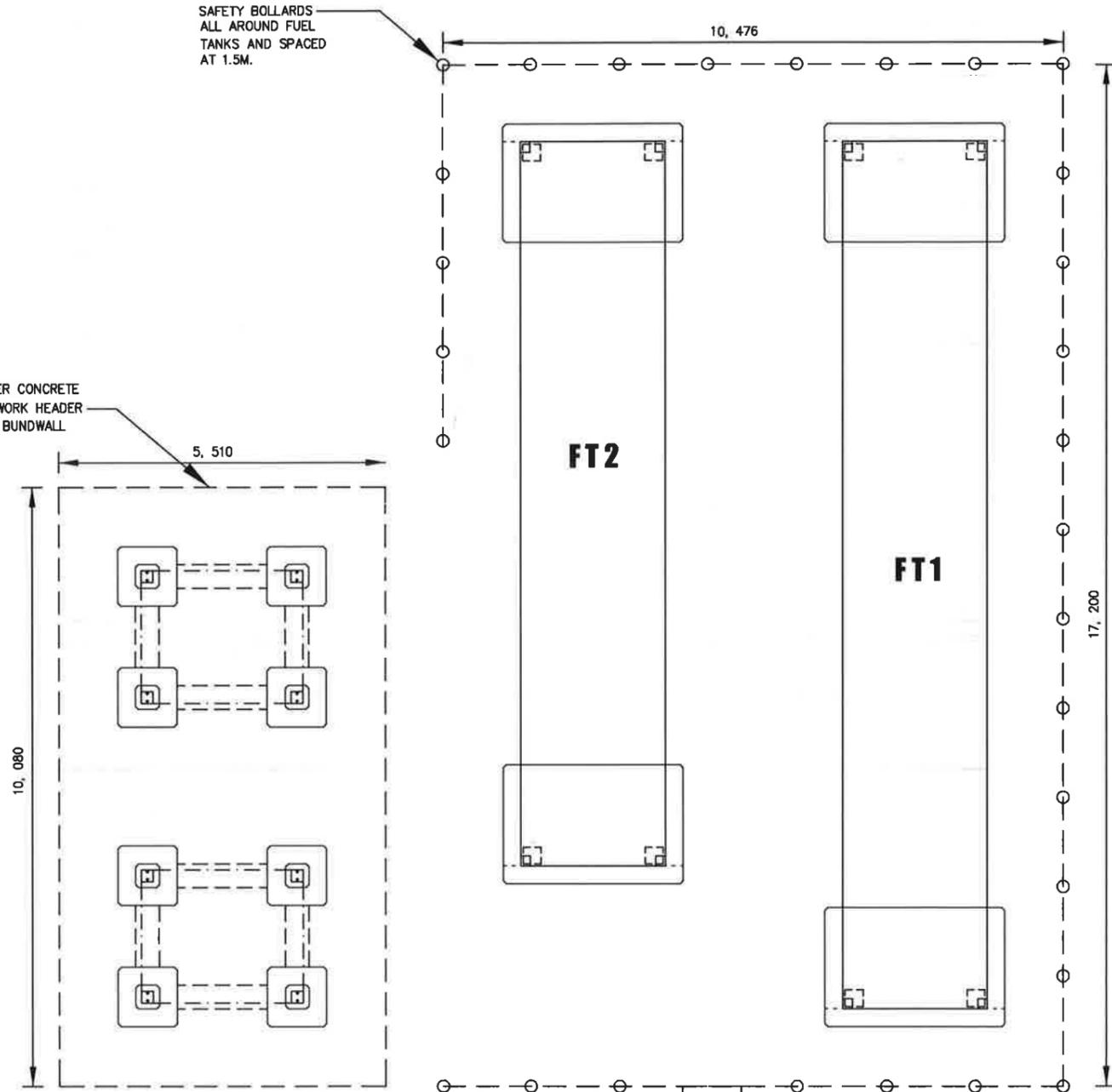


PNG POWER Ltd
P. O. Box 1105, BOROKO 111. NCD. Papua New Guinea
Telephone: (675) 324 3317
Facsimile: (675) 323 4982 E-mail: oole@pngpower.com.pg

Drawn	TLC	Location	DOBEL SUB-STATION, W.H.P.
Designed	TLC	Title	ASSOCIATED CIVIL WORKS
Checked	CTO/CCE	A1	SITE LAYOUT PLAN
Endorsed	MGP <i>[Signature]</i>	Number	GPC-DPS-C03
Approved	AGMAD	Revision	
			Sheet 02 OF 05

SAFETY BOLLARDS
ALL AROUND FUEL
TANKS AND SPACED
AT 1.5M.

4-LAYER CONCRETE
BLOCKWORK HEADER
TANKS BUNDWALL

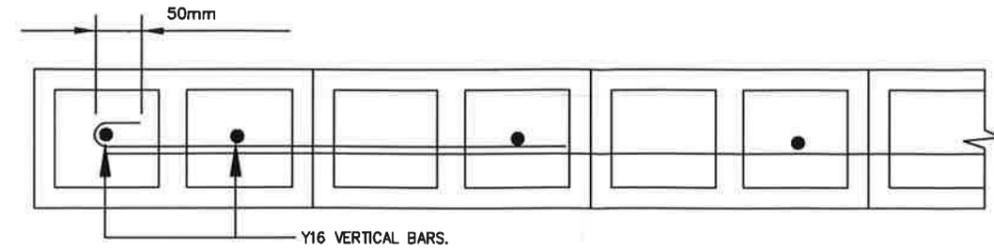


FUEL BUNDWALL & BOLLARDS LAYOUT PLAN
SCALE : 1 : 50

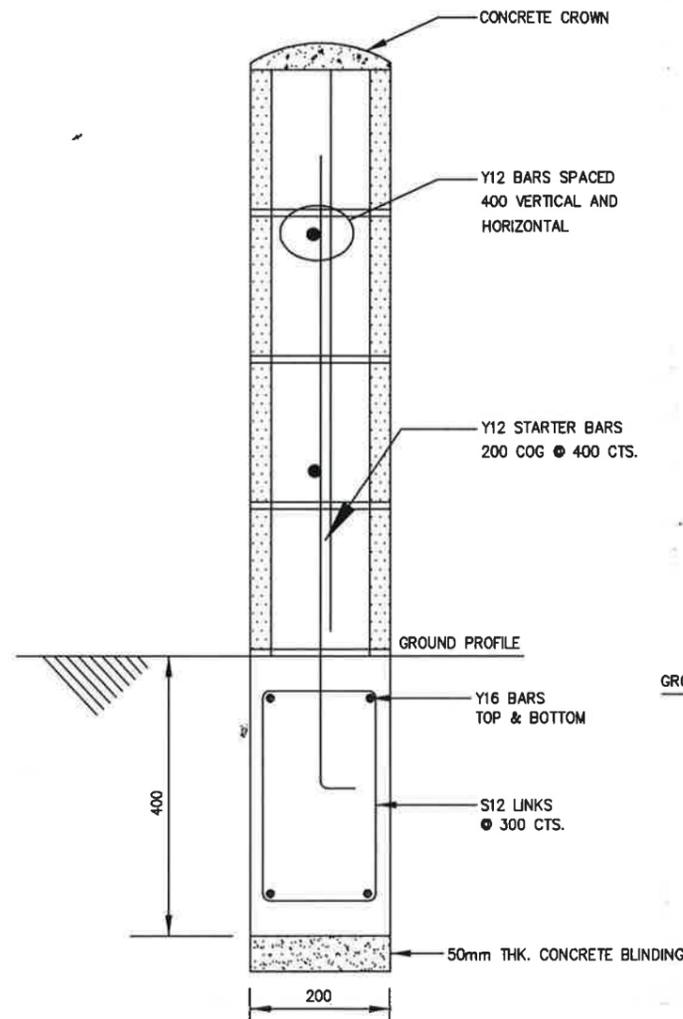
EXISTING PUMP
BAY (2M X 1M)
CONSTRUCT CONCRETE BLOCKWORK BUNDWALL
ALL AROUND • 2 LAYERS

NOTES:

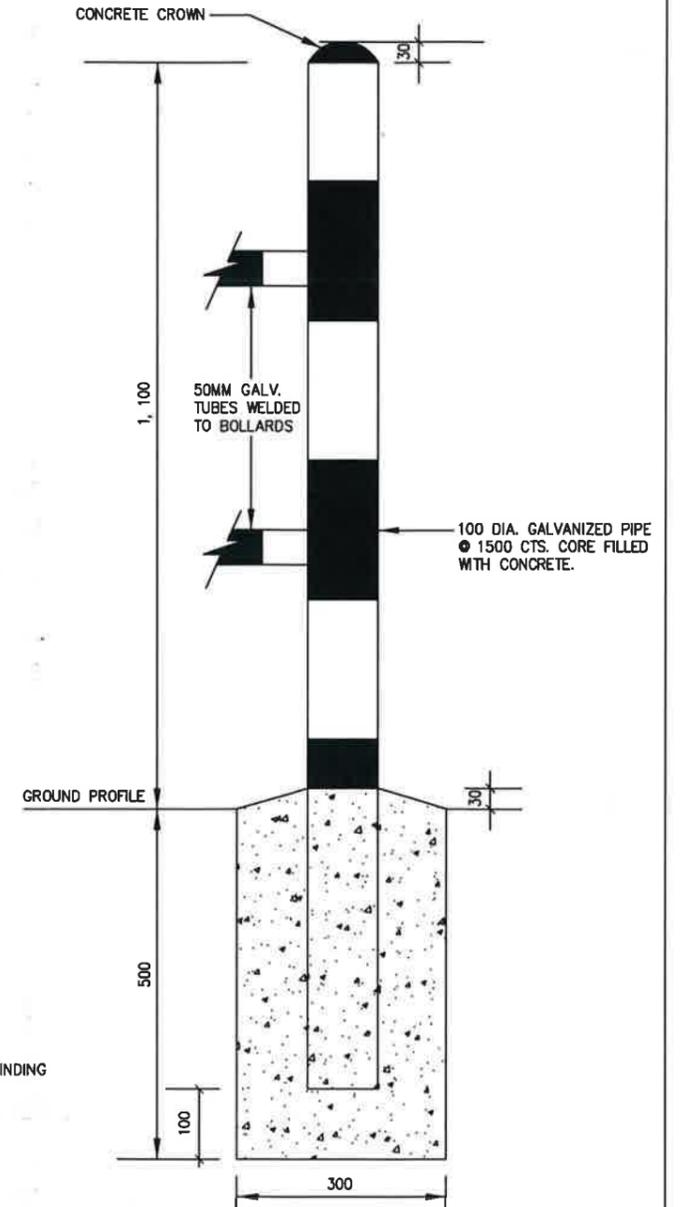
1. CONCRETE TO BE 28MPa AFTER 28 DAYS.
2. ALL LOCATIONS/DIMENSIONS SHALL BE CONFIRMED ON SITE WITH THE SUPERINTENDANT PRIOR TO CONSTRUCTION.
3. ALL BUNDWALL BLOCKWORKS AND BOLLARDS SHALL BE PAINTED WITH TWO COATS UNDERCOAT AND FINAL COAT YELLOW AND BLACK.
4. ANY EXCESS 19MM AGGREGATE SHALL BE RE-USED AND PLACED AROUND THE SAFETY BOLLARDS AND TOP UP WHERE NECESSARY.
5. SAFETY BOLLARDS SHALL ALSO BE INSTALLED ALONG THE GENERATOR BAYS ADJACENT TO THE ACCESS ROAD @ 1.5M INTERVALS AND COVERING ALL 6X GENERATOR BAYS.
6. A SMALL BUNDWALL (2 LAYERS) SHALL BE CONSTRUCTED FOR THE EXISTING FUEL PUMP BAY TOGETHER WITH A SMALL SHED TO STOP ANY RAINWATER BUILD UP INSIDE THE BUNDWALL.



TYPICAL DETAIL AT WALL ENDS
Scale 1 : 5



BUNDWALL TYPICAL DETAIL
SCALE 1 : 5



BOLLARD TYPICAL DETAIL
SCALE 1 : 5

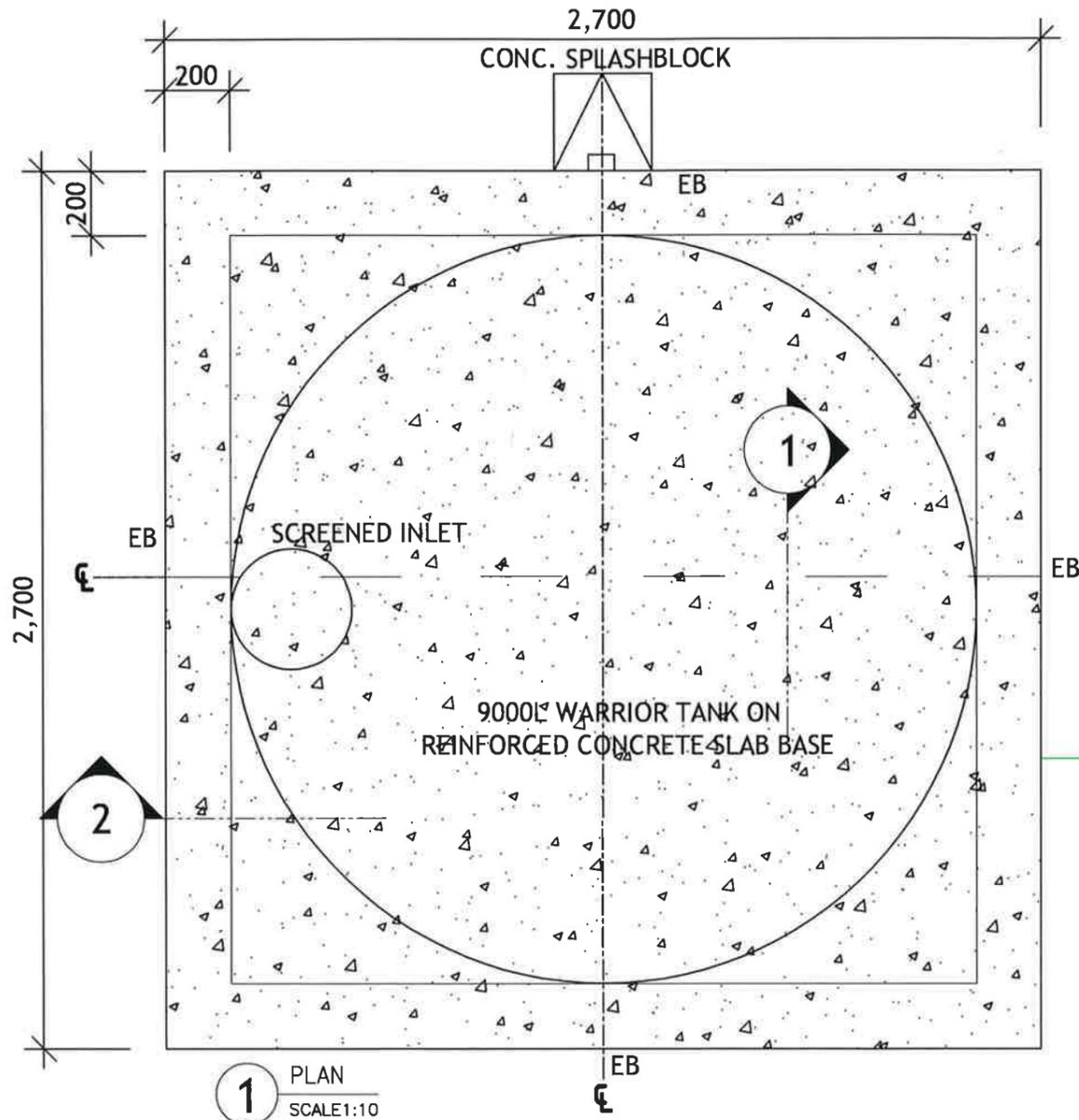
FOR QUOTATION

CAD Filename	Rev.	Revision	By	Chk'd	Date
H:/2023 PROJECTS/ DOBEL / 8MW POWER STATION/ CIVIL WORKS					
Date Plotted:	Scale:				
SEPTEMBER, 2023	AS SHOWN				



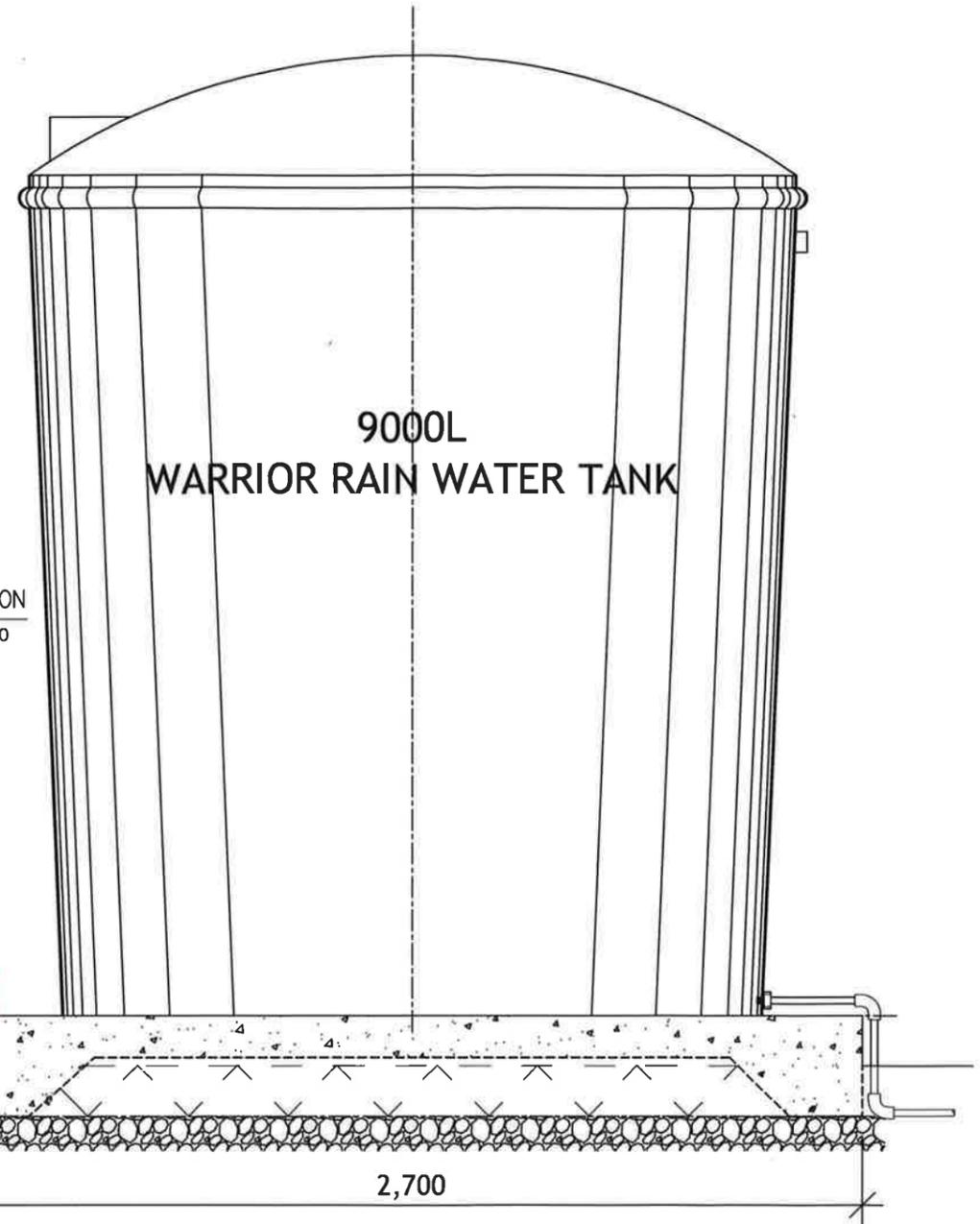
PNG POWER Ltd
P. O. Box 1105, BOROKO 111. NCD. Papua New Guinea
Telephone: (675) 324 3317
Facsimile: (675) 323 4982 E-mail: oole@pngpower.com.pg

Drawn	TLC	Location	DOBEL POWER STATION, W.H.P.
Designed	TLC	Title	FUEL BUNDWALL & SAFETY BOLLARDS PLAN AND DETAILS
Checked	CTO/CCE	A1	
Endorsed	MGP	Number	GPC-DPS-C03
Approved	AG/MAD	Revision	
		Sheet	03 OF 05



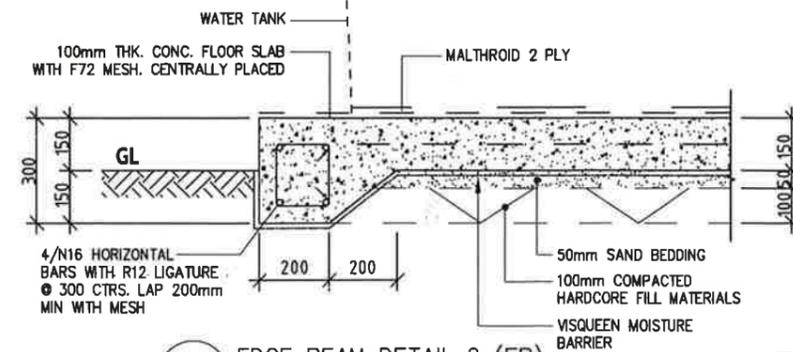
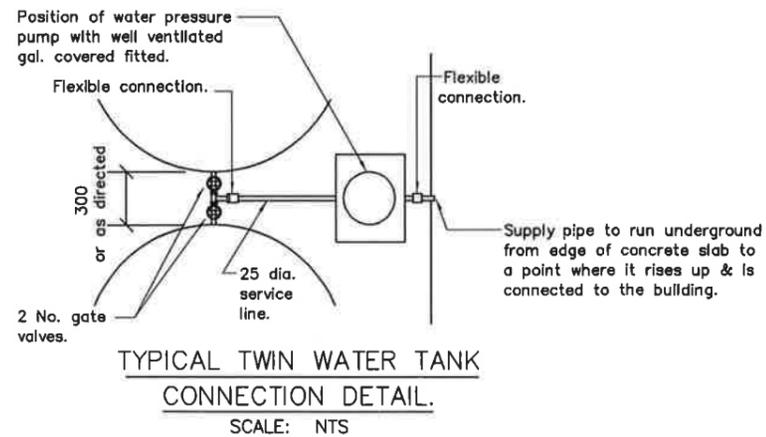
NOTE:
EB - EDGE BEAM
CJ - CONSTRUCTION JOINT

2 ELEVATION
SCALE:1:10



NOTES:

1. CONCRETE TO BE 28MPa AFTER 28 DAYS.
2. TANK INLETS SHALL BE RAISED AND FITTED WITH GAUZE STRAINERS.
3. ALL LOCATIONS/DIMENSIONS SHALL BE CONFIRMED ON SITE WITH THE SUPERINTENDANT PRIOR TO CONSTRUCTION.
4. ALL PIPING CONNECTIONS AND ACCESSORIES SHALL BE PROVIDED AND TANKS SHALL BE CONNECTED TO ALLOW ANY OVERFLOW TO FILL EITHER TANKS.
5. THE CONTRACTOR SHALL ALSO HOOK UP THE EXISTING WATER SUPPLY TO THE WORKSHOP/OFFICE BUILDING.
6. 19MM TAP WITH THREADED SPOUT SHALL BE INSTALLED AT DESIRED LOCATION TOGETHER WITH A 300X300 CONCRETE SPLASH PAD DIRECTLY UNDER OVERFLOW.
7. A SUITABLE WATER PRESSURE PUMP SHALL BE CONNECTED TO THE TANKS AS SHOWN. THE PUMP SHALL BE MOUNTED ON A CONCRETE PAD AND ENCLOSED IN A STEEL CAGE SHED WITH GATE LOCK MECHANISM.



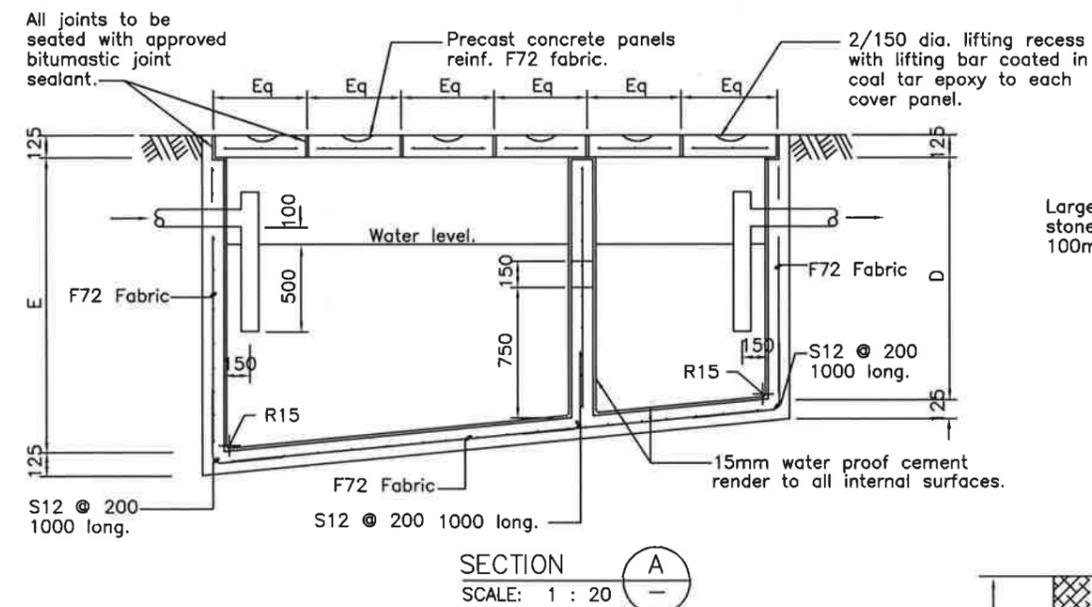
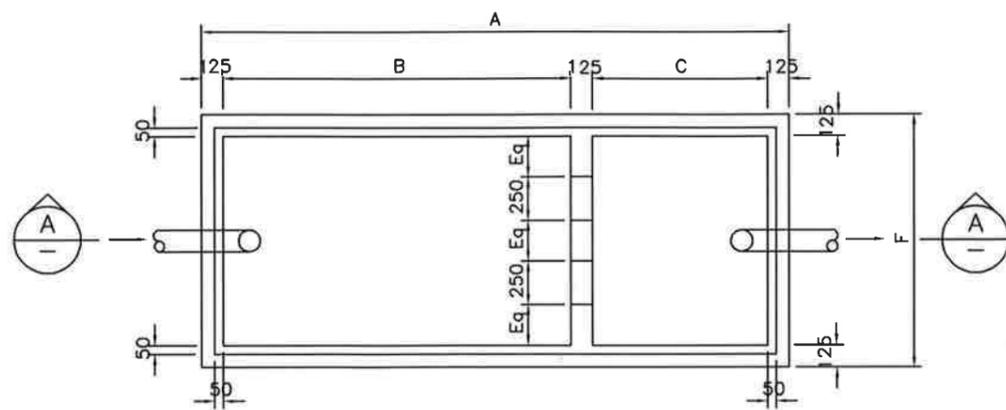
FOR QUOTATION

CAD Filename	Rev.	Revision	By	Chk'd	Date
H:/2023 PROJECTS/ DOBEL / BMW POWER STATION/ CIVIL WORKS					
Date Plotted:	Scale:				
SEPTEMBER, 2023	AS SHOWN				



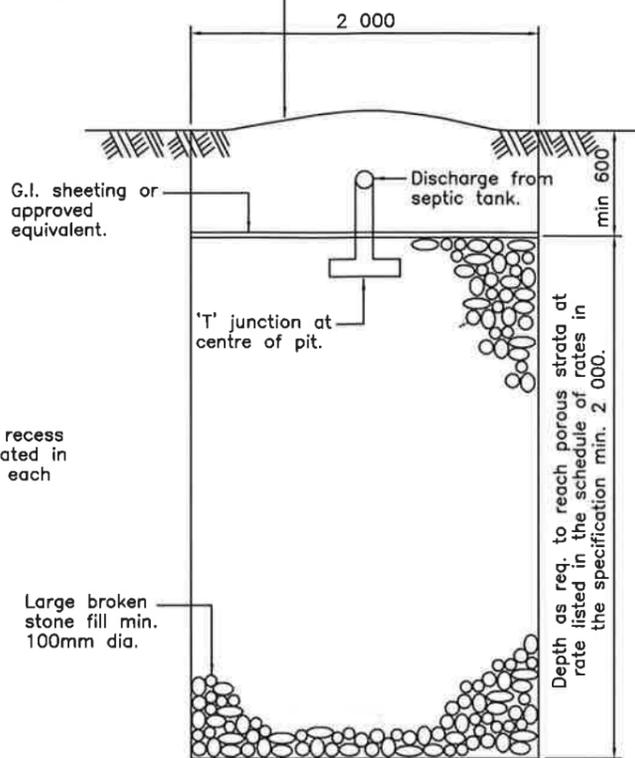
PNG POWER Ltd
P. O. Box 1105, BOROKO 111. NCD. Papua New Guinea
Telephone: (675) 324 3317
Facsimile: (675) 323 4982 E-mail: oole@pngpower.com.py

Drawn	TLC	Location	DOBEL POWER STATION, W.H.P.
Designed	TLC	Title	RAINWATER TANKS FOUNDATION PLAN & DETAILS
Checked	CTO/CCE	Number	GPC-DPS-C03
Endorsed	MGP	Revision	
Approved	AGMAD		
		Sheet	04 OF 05

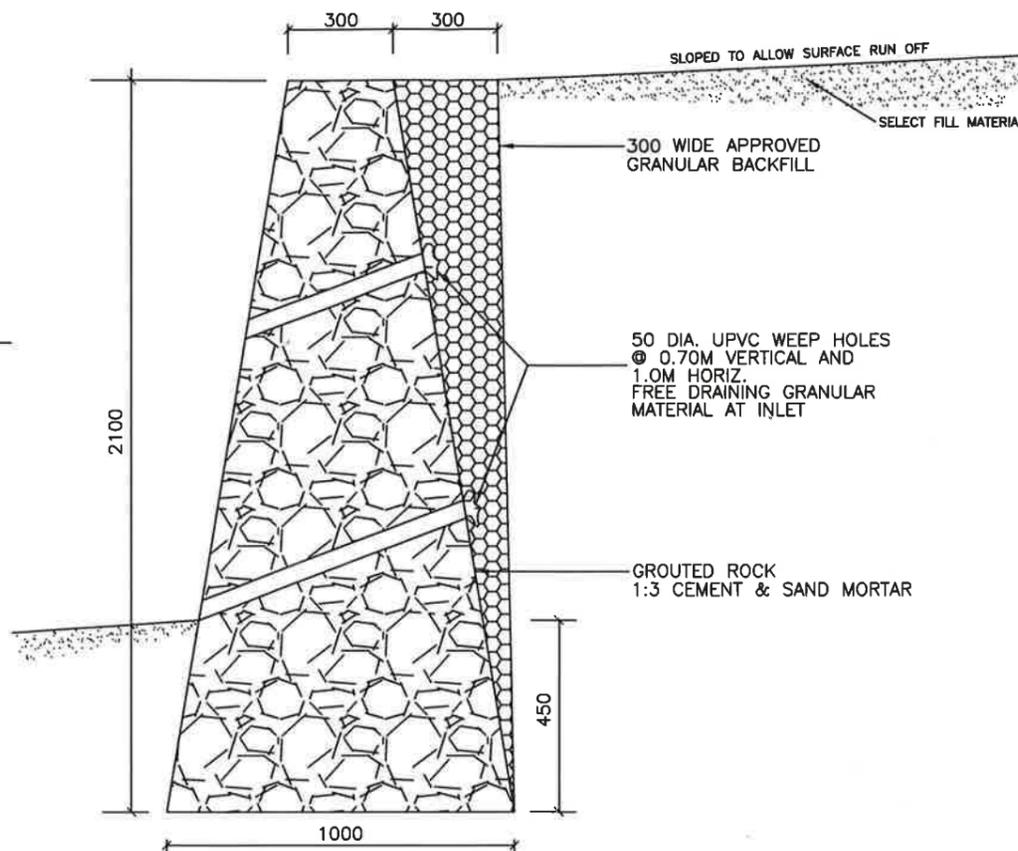


SEPTIC TANK DETAILS					
A	B	C	D	E	F
3 975	2 400	1 200	1 500	1 700	1 450

Replacement soil to be raised for future settlement as per specification.



TYPICAL CROSS SECTION
SCALE: 1 : 20



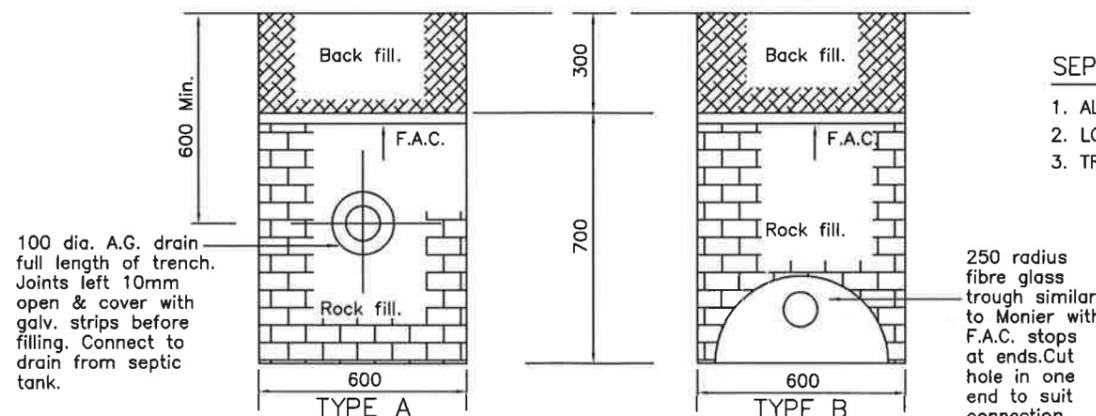
STONEWALL TYPICAL DETAIL
SCALE 1 : 10

STONEWALL NOTES:

1. ALL STONE USED IN WALL TO BE SOUND AND DURABLE AND FROM AN APPROVED SOURCE.
2. WALL TO BE FULLY GROUTED WITH 20 MPA MORTAR.
3. WALL SHAPE TO BE MAINTAINED BY PROFILES AND STRING LINES.
4. PLACE SELECTED STONES ON EXPOSED FACE. CLEAN ALL MORTAR FROM STONE FACE AND RECESS MORTAR TO APPROVAL BEFORE SETTING TAKES PLACE. CLEAN UP ON COMPLETION.
5. PLACE LARGE STONE OVER INLET TO AVOID LOSS OF FILTER MATERIALS.

SEPTIC TANK NOTES:

1. ALL DRAINAGE PIPES TO BE 100 DIA. P.V.C LAID TO A MIN FALL OF 1:60.
2. LOCATION OF ABSORPTION TRENCH SHALL BE DETERMINED ON SITE.
3. TRENCH SHALL BE 10M IN LENGTH OR AS DETERMINED ON SITE.



ABSORPTION TRENCH
SCALE: 1 : 10

100 dia. A.G. drain full length of trench. Joints left 10mm open & cover with galv. strips before filling. Connect to drain from septic tank.

250 radius fibre glass trough similar to Monier with F.A.C. stops at ends. Cut hole in one end to suit connection with drain.

FOR QUOTATION

CAD Filename	Rev.	Revision	By	Chk'd	Date
H:/2023 PROJECTS/ DOBEL / BMW POWER STATION/ CIVIL WORKS					
Date Plotted:	Scale:				
SEPTEMBER, 2023	AS SHOWN				

PNG POWER Ltd
 P. O. Box 1105, BOROKO 111. NCD. Papua New Guinea
 Telephone: (675) 324 3317
 Facsimile: (675) 323 4982 E-mail: oole@pngpower.com.pg

Drawn	TLC	Location	DOBEL POWER STATION, W.H.P.
Designed	TLC	Title	SEPTIC TANK, ABSORPTION PIT & STONEWALL PLAN & DETAILS
Checked	CTO/CCE	A1	
Endorsed	MGP	Number	GPC-DPS-C03
Approved	AGMAD	Revision	
		Sheet	05 OF 05