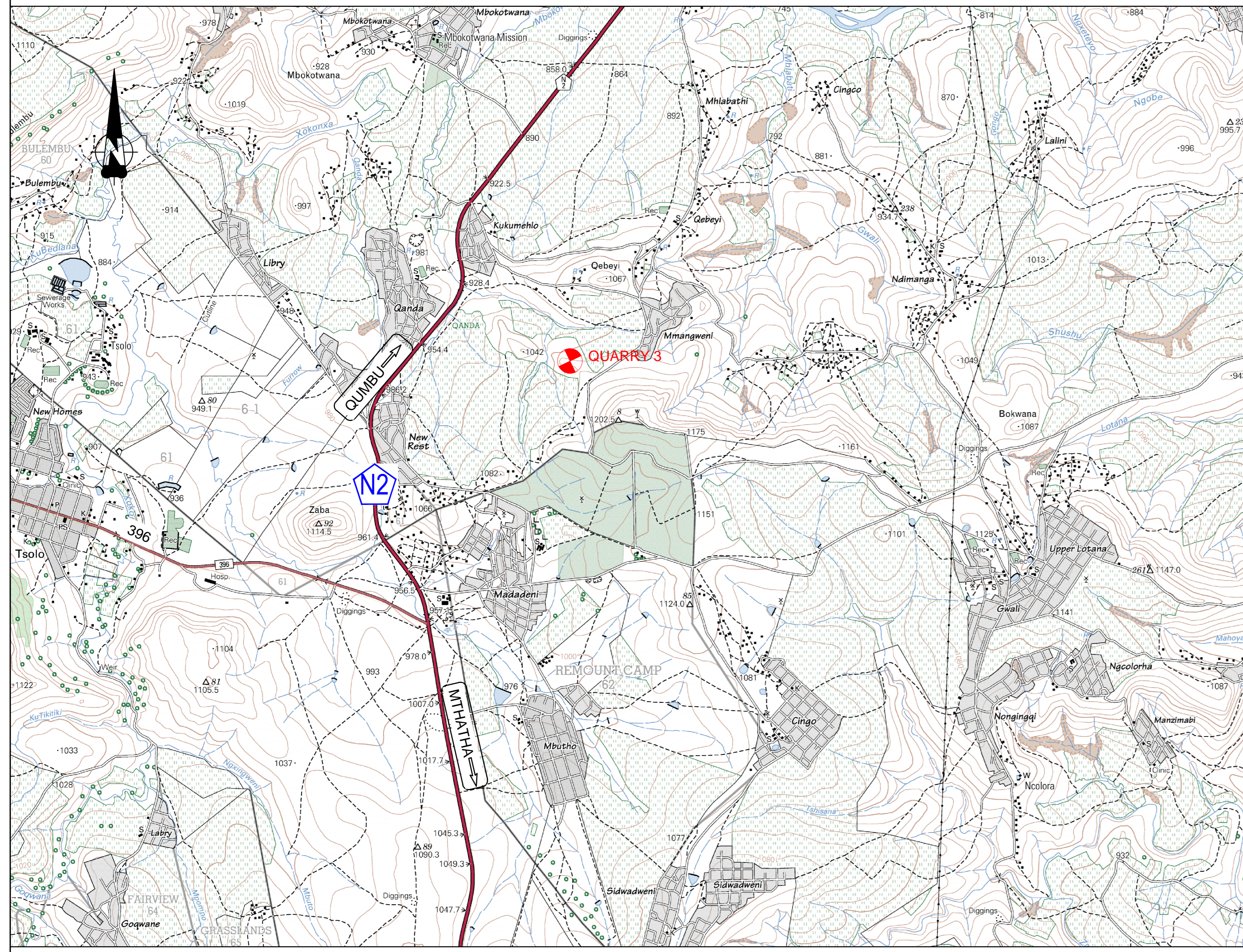


ORIGINAL 1 : 50 000
3128 BD

QUARRY 3 CO-ORDINATES
Y -16899.020 X +3463439.020



LAYOUT PLAN

LEGEND

	POSITION OF BORROWPIT
	MATERIAL DESCRIPTION
	PROPOSED USAGE
	TOTAL CAPACITY
	FENCE AREA

QUARRY3 - XOKONXA 4

QUARRY No. 03
OWNER: Chief N. Dipe
ADDRESS: Community/Trial Land
TEL: 078 629 4020 / 063 055 1162

BORROW PIT EXTENT CO-ORDINATES

NAME	Y	X
QUARRY1	16 833 556	3 463 541 515
QUARRY2	16 801 383	3 463 536 540
QUARRY3	16 767 833	3 463 489 904
QUARRY4	16 776 713	3 463 462 256
QUARRY5	16 994 164	3 463 314 761
QUARRY6	17 005 164	3 463 321 131
QUARRY7	17 030 143	3 463 365 735
QUARRY8	17 021 239	3 463 416 644

AREA OF PIT = 2,72 Ha

FENCE CO-ORDINATES

NAME	Y	X
QUARRY03_F02	17 048 410	3 463 303 310
QUARRY03_F03	16 720 912	3 463 470 563
QUARRY03_F04	17 042 291	3 463 253 486
QUARRY03_F05	17 063 420	3 463 415 996
QUARRY03_F01	16 798 887	3 463 595 015

FENCED AREA = 5,26 Ha

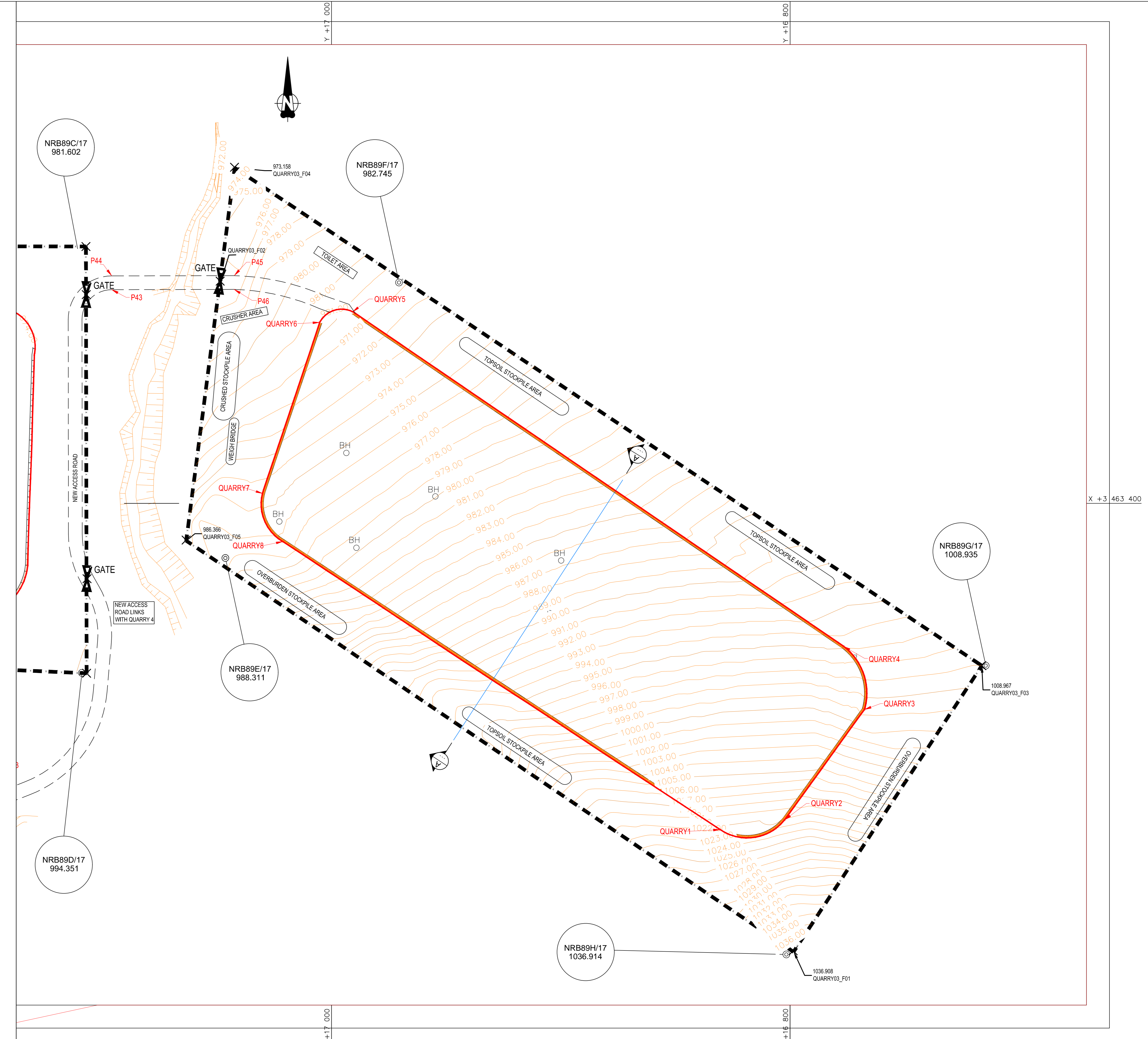
LEGEND

	TEST HOLES
	BORROW PIT BOUNDARY
	EXTENT OF BORROW PIT
	FENCE BOUNDARY
	FENCE LINE
	BATTER SLOPES
	ELECTRICAL POLE
	OVERHEAD LINE
	CADASTRAL BOUNDARIES

- NOTES:**
- ANY INVADER SPECIES WILL BE REMOVED FROM THE SITE BEFORE ANY TOPSOIL IS CLEARED. THE TOPSOIL WILL BE STRIPPED TO A MINIMUM DEPTH OF 0.50m IF AVAILABLE AND STORED AWAY FROM DRAINAGE LINES ALONG THE EDGES OF THE EXCAVATED AREA. STOCKPILES WILL NOT EXCEED 1m IN HEIGHT AND WILL NOT BE COMPACTED FOR MORE THAN SIX MONTHS BEFORE BEING USED FOR REHABILITATION. TOPSOIL WILL BE SPREAD ON THE SURFACE AS SOON AS THE QUARRY EXCAVATION HAS BEEN COMPLETED AND ITS SLOPES HAVE BEEN FINISHED OFF AS REQUIRED.
 - THE QUARRY SITE AND EXISTING ACCESS ROAD WILL BE PROPERLY DEMARCATED AND FENCED OFF BEFORE COMMENCEMENT OF MINING OPERATION.
 - DUST EMISSIONS WILL BE EFFECTIVELY CONTROLLED BY APPROPRIATE MEASURES SUCH AS SPRAYING WATER AND/OR OTHER DUST CONTROL MEASURES. EXCAVATED MATERIAL STOCKPILES WILL BE ADEQUATELY PROTECTED AGAINST THE WIND, WHERE NECESSARY, THROUGH MEASURES SUCH AS SHADE CLOTH SCREENS OR HESSIAN COVERING. IN THE SHORT TERM, STOCKPILES MAY ALSO BE DAMPENED TO MINIMIZE DUST GENERATION.
 - VEHICLE SPEEDS WILL BE RESTRICTED TO PREVENT ACCIDENTS, TO REDUCE DUST AND NOISE POLLUTION AND TO PREVENT ANY POSSIBLE INJURY TO LIVESTOCK.
 - ACCESS TO ALL GATES WILL BE CONTROLLED AS AGREED WITH THE LANDOWNER / LESSEE AND IN ACCORDANCE WITH THEIR REQUIREMENTS.
 - A TEMPORARY EATING AREA WILL BE PROVIDED WITHIN THE QUARRY AREA TO ENSURE THAT SITE PERSONNEL DO NOT MOVE OFF SITE TO EAT. ABILUTION FACILITIES WILL BE PROVIDED AND WILL BE LOCATED TO PREVENT THE POLLUTION OF GROUNDWATER. TOILET PAPER WILL BE PROVIDED.
 - TEMPORARY WASTE DISPOSAL AREAS WILL BE DEMARCATED AND FENCED (IF NECESSARY) AND WASTE WILL BE COLLECTED AND STORED IN WEATHERPROOF CONTAINERS (WITH LIDS) WITHIN THIS AREA FOR DISPOSAL AT A LICENSED WASTE DISPOSAL FACILITY. ALL WASTE WILL BE REMOVED FROM SITE BY THE CONTRACTOR. NO BURNING, ON-SITE DUMPING OR BURYING OF WASTE WILL OCCUR.
 - MINING OF QUARRY WILL REQUIRE BLASTING AND CRUSHING.
 - ALL WORKED AREAS WILL BE LEVELED WITH SURPLUS OVERBURDEN AS AVAILABLE FROM STOCKPILE. HARD ROCK BATTERS WILL BE TRIMMED OF LOOSE MATERIAL TO MAKE SAFE.
 - ALL DISTURBED AREAS NOT MINED WILL BE REINSTATED BY SCARIFYING AND SPREADING AVAILABLE TOPSOIL FROM STOCKPILE AND REVEGETATED AS REQUESTED.
 - A REHABILITATION SPECIALIST TO BE CONTACTED PRIOR TO WORK COMMENCING ON SITE TO DETERMINE REQUIREMENTS FOR SEARCH AND RESCUE AND BRUSH CUTTING.

NEW ACCESS ROAD CO-ORDINATES

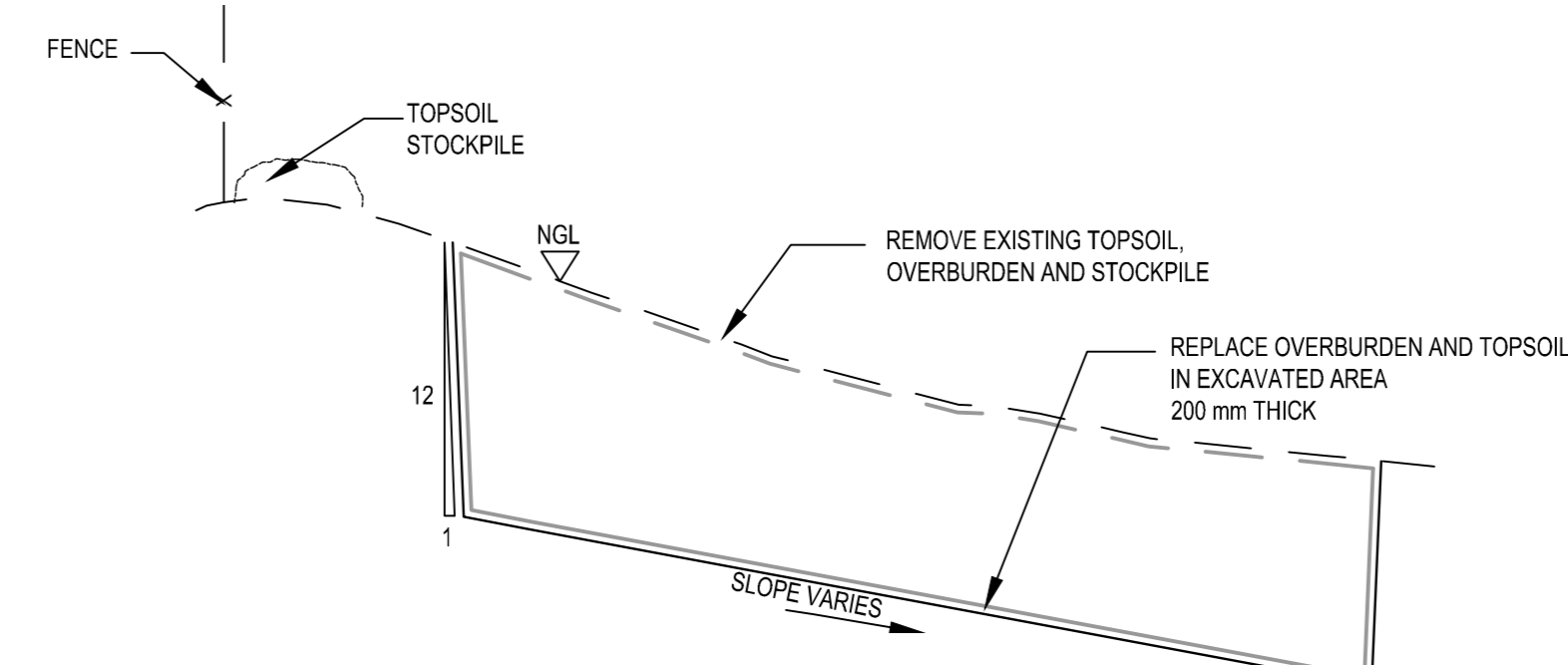
NAME	Y	X
P43	17 095 917	3 463 306 823
P44	17 095 931	3 463 300 823
P45	17 042 448	3 463 300 791
P46	17 042 521	3 463 306 791



LAYOUT PLAN

SCALE 1:750

CO-ORDINATES	SYSTEM	WGS 29°	
POINT	Y _a	X _a	Z
NRB89F/17	16970.54	3463303.76	982.745
NRB89D/17	16714.69	3463470.76	1008.935
NRB89H/17	16801.65	3463596.63	1036.914
NRB89E/17	17046.26	3463423.84	988.311



SECTION A - A

N.T.S.

<p>DESIGNED BY</p> <p>UWP CONSULTING (Pty) Ltd</p> <p>CLEVEDON HOUSE 2 CLEVEDON ROAD SELBOURNE 5201 TEL: (043) 721 - 0186 FAX: (086) 539 - 2880</p>	<p>DESIGNED BY</p> <p>V3 CONSULTING ENGINEERS</p> <p>66 NEWTON STREET NEWTON PARK PORT ELIZABETH 6045 TEL: (041) 045 - 0430 FAX: (0)87 405 0471</p>	<p>CONSULTANT APPROVAL</p> <p><i>[Signature]</i> Name: S van WYK Prof. Reg. No.: 9079132 Date: 05/12/2016</p>	<p>HEAD OFFICE</p> <p>48 Tambotie Avenue Val de Grace Pretoria 0184 PO Box 415 Pretoria 0001 South Africa Tel: (012) 844 8000</p>	<p>SOUTHERN REGION</p> <p>20 Shoreward Drive Bay West Port Elizabeth 6025 P.O.Box 24210 Bay West Port Elizabeth 6034 Tel: (041) 398 3200</p>	<p>ACCEPTANCE</p> <p>THIS ACCEPTANCE IS FOR PROCEDURAL AND ADMINISTRATIVE REVIEW PURPOSES ONLY AND DOES NOT ATTRACT LEGAL LIABILITY OR LIABILITY OF ANY KIND FROM WHATSOEVER CAUSE OR HOWEVER ARISING</p> <p>for CEO SA NATIONAL ROADS AGENCY SOC LTD Date:</p>	<p>PROJECT DESCRIPTION</p> <p>REHABILITATION OF NATIONAL ROUTE 2 SECTION 19 BETWEEN NQADU (km 21,7) AND MZEKE RIVER (km 55,4) AND SAFETY IMPROVEMENTS AT DAN'S (km 17,0 TO 19,0)</p> <p>DESCRIPTION QUARRY 3 - N2-19 Km 50 RIGHT</p>	<p>PROJECT NUMBER</p> <p>N.002-190-2013/1F</p>	<p>DRAWING LOCATION DATA</p> <table border="1"> <tr><th>START</th><th>END</th></tr> <tr><td>N2</td><td>N2</td></tr> <tr><td>19</td><td>19</td></tr> </table>	START	END	N2	N2	19	19	<p>DRAWING DISTANCE</p> <p>QUARRY</p>	<p>BRIDGE/STRUCTURE No.</p>	<p>CONSULTANT DRAWING No. FA</p> <p>25646-1241</p>	<p>VER</p> <p>V0</p>
									START	END								
N2	N2																	
19	19																	
<p>CONSTRUCTION RECORD</p> <p>WORKS CONTRACT ENGINEER</p> <p>Name: _____ Prof. Reg. No.: _____ Date: _____</p> <p>SANRAL PROJECT MANAGER</p> <p>Name: _____ Date: _____</p>	<p>DESIGN, DRAWN BY</p> <p>NAME: S. BOSHALETSE</p>	<p>SCALE: AS SHOWN</p>	<p>SHEET 1 OF 4</p>	<p>SANRAL DOCUMENT #</p>														