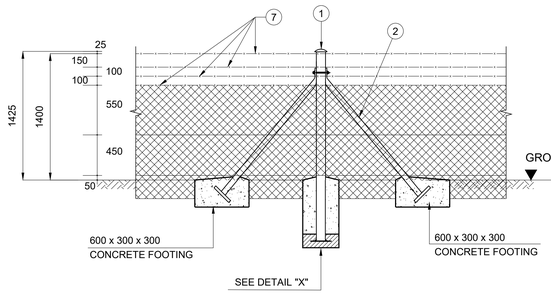
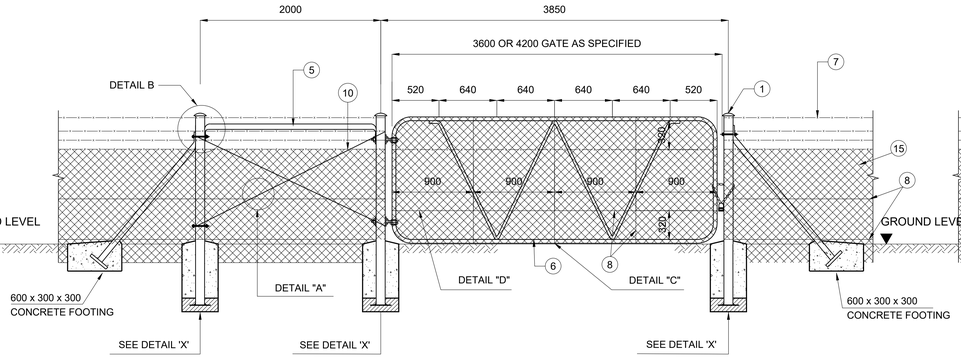
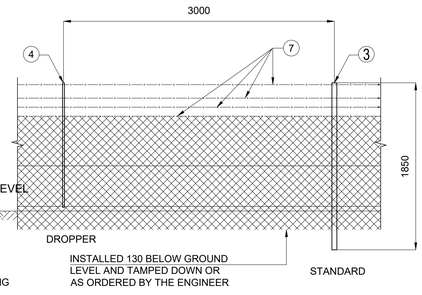
DWG PATH: P:\TP2113_HLUHLUWE20 DRAWINGS\04_VOLUME 4\01_WORKING DWG\TP2113-T-093 FENCING.DWG



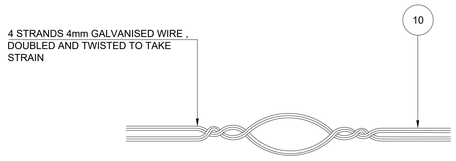
STRAINING POST DETAIL
N.T.S



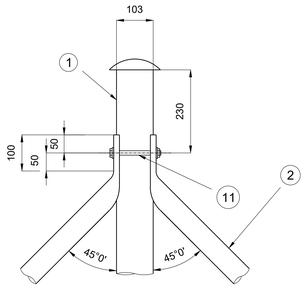
FENCE DETAIL AND STRAINING POST AT GATE
N.T.S

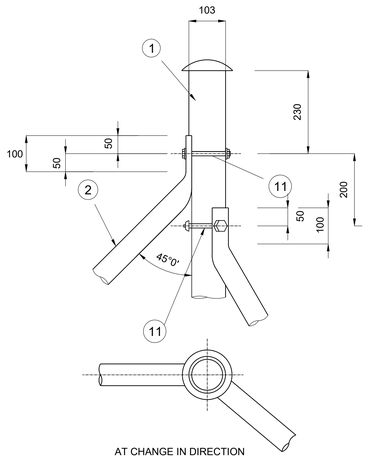


STANDARDS AND DROPPERS
N.T.S

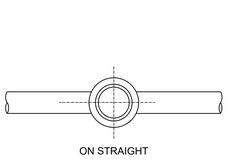


DETAIL 'A'
N.T.S



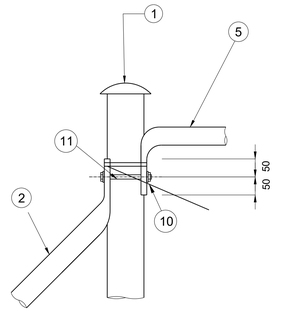


AT CHANGE IN DIRECTION



ON STRAIGHT

DETAILS OF STRAINING POSTS
N.T.S



DETAIL 'B'
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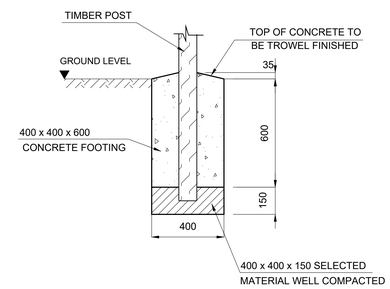
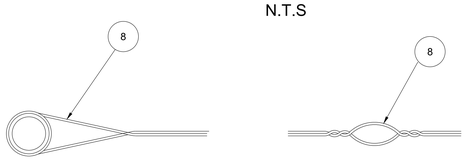
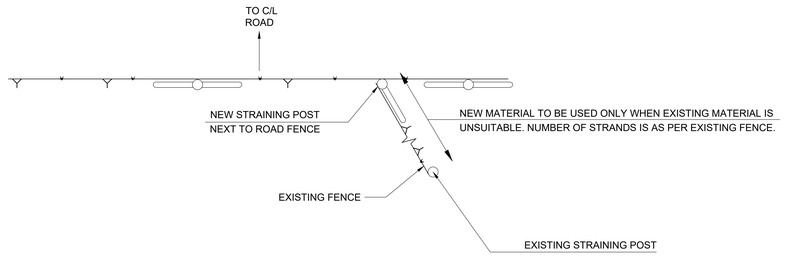


DETAILS OF POST FOOTINGS - DETAIL 'X'
400 X 400 X 600
N.T.S

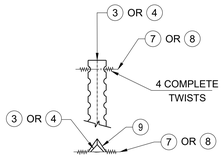


DETAIL 'C'
N.T.S

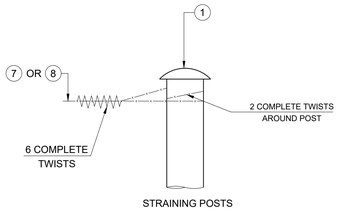
DETAIL 'D'
N.T.S



FENCING IN RELATION TO ROAD AND REPAIR OF EXISTING FENCE IN CUT BY ROAD RESERVE
N.T.S



STANDARDS AND DROPPERS



STRAINING POSTS

FASTENING OF BARBED WIRE TO STANDARDS, DROPPERS AND POSTS
N.T.S

NOTES:
1. POSTS:
   2130 X 100Ø X 3 mm MILD STEEL TUDING WITH STEEL CAP AND 230 X 230 X 3 mm BASE PLATE, FULLY GALVANIZED (SANS 121/ ISO 1461) (WITHOUT HOLES FOR WIRES).
2. STAYS:
   1690 X 60Ø X 3mm MILD STEEL TUBING WITH 230 X 230 X 3 mm BASE PLATE, FULLY GALVANIZED (SANS 121/ISO1461).
3. STANDARDS:
   1850 X 2.5kg/m "Y" SECTION COMPLETE WITH HOLES AT 50 mm CENTRES. FULLY GALVANIZED (SANS 121/ ISO01461) IF WITHIN 25 km FROM THE COAST.
4. DROPPERS:
   1400 X 0.56 mm kg/m RIDGEBACK PATTERN (SANS 121/ISO01461), FULLY GALVANIZED IF WITHIN 25 km FROM THE COAST.
5. CROSS BRACE SUPPORT:
   2400 X 60Ø X 3 mm MILD STEEL TUBING BENT AND FLATTENED AS SHOWN, FULLY GALVANISED (SANS 121/ISO1461), ENDS PRESSED FLAT TO ±8 mm.
6. GOVERNMENT PATTERN FARM GATE:
   MANUFACTURED FROM 42.9Ø X 2.6 mm STEEL TUBING WITH HINGES, WASHERS, BOLTS AND LOCKING CHAIN ATTACHED TO GATE (COMPLYING WITH CKS 146). ALL FULLY GALVANIZED (SANS 121/ ISO 1461).
7. BARBED WIRE:
   3.2 X 2.5 mm OVAL HIGH TENSILE GRADE SINGLE STRAND (SANS 675), FULLY GALVANISED.
8. SMOOTH WIRE:
   3.0 mm Ø HIGH TENSILE GRADE (SANS 675) FULLY GALVANIZED.
9. TYING WIRE:
   2.5 mm Ø MILD STEEL (SANS 675), FULLY GALVANIZED FOR TYING TO STANDARDS AND DROPPERS.
10. STRAINING WIRE:
    4 mm Ø MILD STEEL (SANS 675), FULLY GALVANIZED (4 STRANDS, DOUBLED AND TWISTED TO TAKE STRAIN).
11. BOLTS FOR STAYS:
    12 mm Ø MILD STEEL, INCLUDING NUTS AND WASHERS, FULLY GALVANIZED.
12. MAXIMUM SPACING OF:
    STRAINING POSTS 180 m c/c
    STANDARDS 15 m c/c
    DROPPERS 3 m c/c
13. ALL WIRES TO BE ERECTED ON THE ROAD SIDE OF THE FENCE UNLESS OTHERWISE INSTRUCTED.
14. MINIMUM CONCRETE STRENGTH OF FOOTINGS 20 MPa AT 28 DAYS.
15. WIRE NETTING:
    75 mm x 1.8 mm Ø x GALVANIZED MESH.

COMPLYING WITH CKS 82

FOR TENDER
(FOR TENDER PURPOSES ONLY)

No.	DATE	REVISION	CONSULT. ENG.
1	23/10/09	ORIGINAL	

CONSTRUCTION RECORD (AS-BUILT)
WORKS CONTRACT ENGINEER
Name :
Prof. Reg. No. :
Date :
SANRAL PROJECT MANAGER
Name :
Date :

DESIGNED BY
NAME
Prof. Reg. No.
CHECKED BY
NAME
Prof. Reg. No.
DRAWN BY
NAME

CONSULTANT APPROVAL
Name :
Prof. Reg. No. :
Date :

HEAD OFFICE
48 Tambotie Avenue
Val de Grace
Pretoria
0184

PO Box 415
Pretoria 0001
South Africa

Tel: (012) 844 8000

SANRAL
SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LTD
Reg No. 1998/ 009354/ 30
BUILDING SOUTH AFRICA THROUGH BETTER ROADS

EASTERN REGION

58 Van Eck Place
Mkondeni
Pietermaritzburg
3201

PO Box 100410
Scottsville
3209

Tel: (033) 392 8100

ACCEPTANCE
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
for the SA NATIONAL ROADS AGENCY SOC LTD.
Date:

PROJECT DESCRIPTION
THE CONSTRUCTION OF PAVEMENT AND SETTLEMENT REPAIRS ON NATIONAL ROUTE 2, SECTION 30 FROM BUSHVELD RETREAT FARM (km47.0) TO HLUHLUWE INTERCHANGE (km 55.0)

DRAWING DESCRIPTION
FENCING AND RELATED ITEMS
VERMIN PROOF FENCING
ON STEEL POSTS

SCALE : N.T.S **SHEET** 4 **OF** 8

PROJECT NUMBER	N.002-300-2020/1	
DRAWING LOCATION DATA	START	END
ROUTE	N.002	N.002
SECTION	SECTION 30	SECTION 30
DRAWING km DISTANCE	km 47.0	km 55.0
DRAWING TYPE	FENCING	
BRIDGE/STRUCTURE No.	N/A	
CONSULTANT DRAWING No.	TP2113-T-093	VER 1
SANRAL DOCUMENT #		

GRYSEKAL SCALE : 1 : 100

Drawing No :-