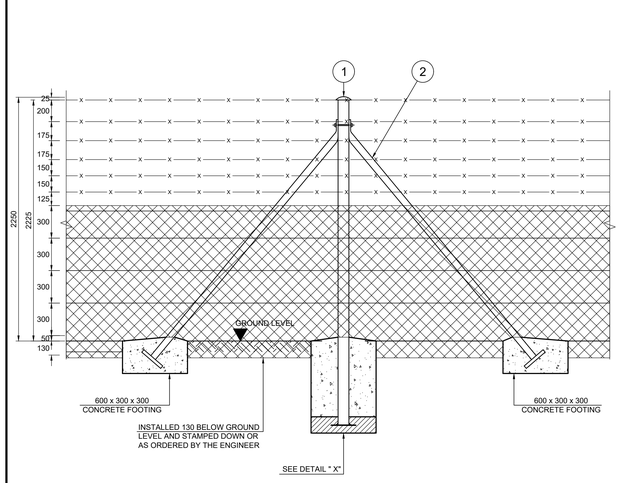
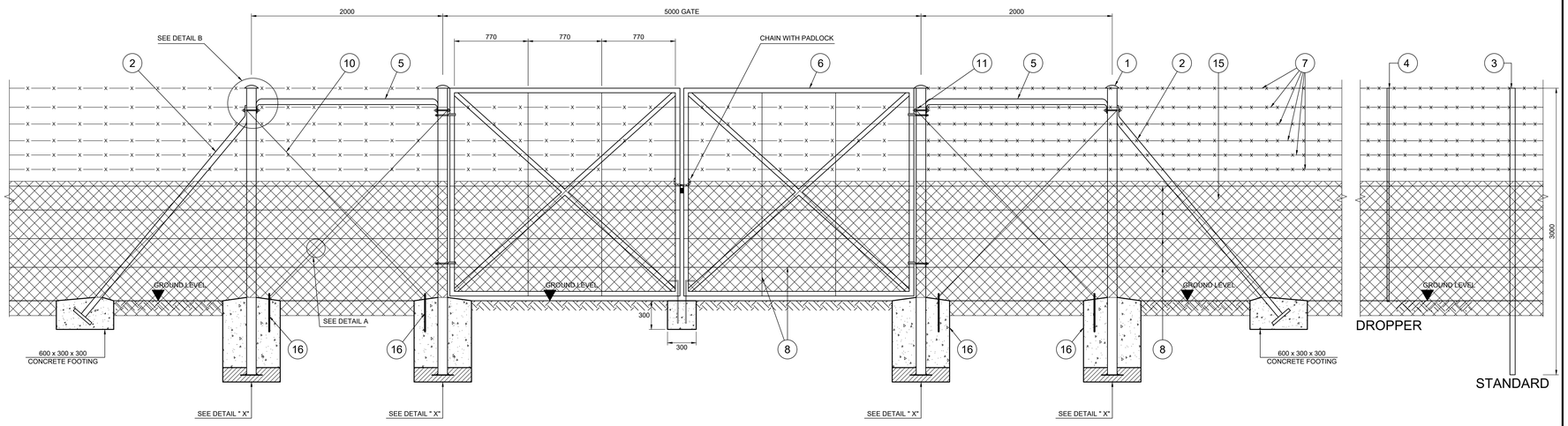


STRAINING POST DETAIL

SCALE 1:25

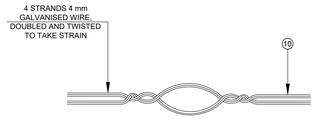


FENCE DETAIL AT GATE

SCALE 1:25

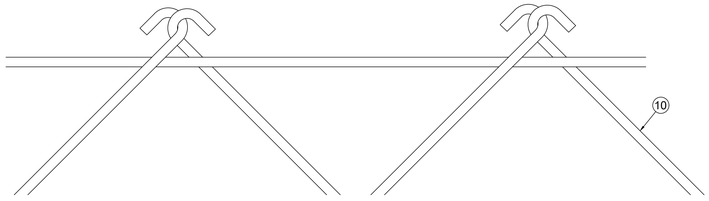
STANDARDS AND DROPPERS

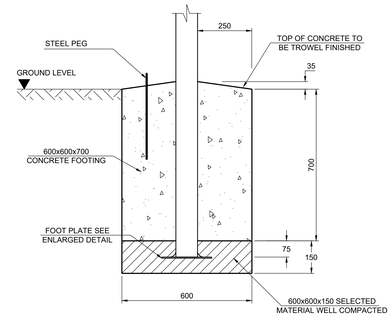
SCALE 1:25



DETAIL A

N.T.S





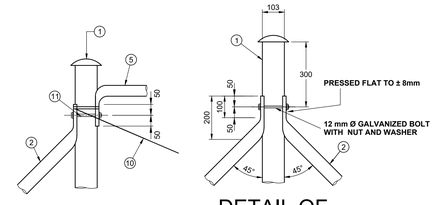
DETAILS OF POST FOOTINGS
DETAIL "X" 600x600x700

SCALE 1 : 10

ITEM:

1. **POSTS:** 3000 x 100 Ø x 3 mm MILD STEEL TUBING WITH STEEL CAP AND 230 x 230 x 3 mm BASE PLATE, FULLY GALVANIZED (SANS 121/ISO 1461) (WITHOUT HOLES FOR WIRES).
2. **STAYS:** 3350 x 60 Ø x 3 mm MILD STEEL TUBING WITH 230 x 230 x 3 mm BASE PLATE, FULLY GALVANIZED. (SANS 121/ISO1461).
3. **STANDARDS:** 3000 x 2,5 kg/m "Y" SECTION COMPLETE WITH HOLES AT 50 mm CENTRES. FULLY GALVANIZED (SANS 121/ISO1461) IF WITHIN 25 km FROM THE COAST.
4. **DROPPERS:** 2250 X 0,56 mm kg/m RIDGEBACK PATTERN (SANS 121/ISO1461), FULLY GALVANIZED IF WITHIN 25 km FROM THE COAST.
5. **CROSS BRACE SUPPORT:** 2400 x 60 Ø x 3 mm MILD STEEL TUBING BENT AND FLATTENED AS SHOWN, FULLY GALVANIZED (SANS 121/ISO 1461). ENDS PRESSED FLAT TO ± 8 mm.
6. **GATE:** 42 Ø x 2 mm MILD STEEL TUBING FRAME 21,4 Ø X 2mm MILD STEEL TUBE BRACING, COMPLETE WITH HINGES, WASHERS, BOLTS AND LOCKING CHAIN ATTACHED TO GATE (COMPLYING WITH CKS 146). FULLY GALVANIZED (SANS 121/ISO 1461) AFTER FABRICATION.
7. **BARBED WIRE:** 3,2 x 2,5 mm OVAL HIGH TENSILE GRADE SINGLE STRAND (SANS 675), FULLY GALVANIZED.
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 1,5 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.
16. **STEEL PEG :** 12 mm Ø x MILD STEEL FULLY GALVANIZED.

COMPLYING WITH CKS 82



DETAIL B

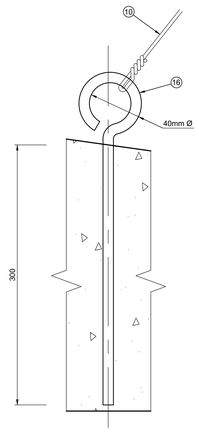
SCALE 1 : 5

DETAIL OF STRAINING POST

SCALE 1 : 5

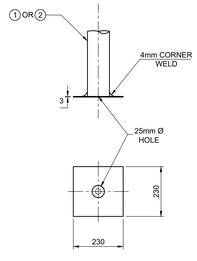
METHOD OF FASTENING TO TOP STRAINING WIRE

SCALE 1 : 5



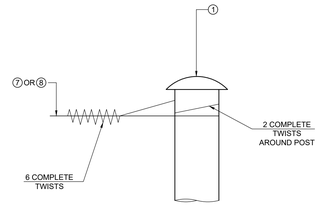
DETAILS OF STEEL PEG

SCALE 1 : 2,5

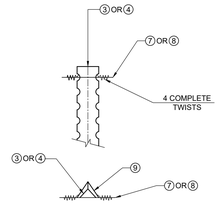


DETAIL OF FOOT PLATE

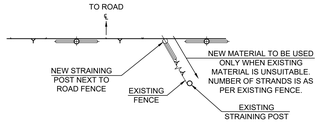
SCALE 1:10



STRAINING POSTS



STANDARDS AND DROPPERS



FENCING IN RELATION TO ROAD AND REPAIR OF EXISTING FENCE IF CUT BY ROAD RESERVE

SCALE 1:50

NOTES:

1. ALL TUBULAR POSTS TO BE FULLY GALVANISED IN ACCORDANCE WITH S.A.B.S. 763 FOR CLASS B1 ARTICLES.
2. ROLLED STEEL SECTIONS SHALL BE PROVIDED WITH A PROTECTIVE COATING OF TAR OR OTHER APPROVED MATERIAL.
3. ALL POSTS TO BE ERECTED ON THE ROAD RESERVE SIDE OF THE FENCE.
4. CONCRETE FOOTING CLASS 1:4:8/38, CONCRETE MUST HAVE BEVELLED EDGES. MINIMUM CONCRETE STRENGTH OF FOOTINGS 20MPa AT 28 DAYS.
5. ALL POSTS ARE TO BE SEALED BY WELDING A STEEL CAP OVER THE OPENING AT THE TOP.
6. BOUNDARY BEACONS CONSISTING OF HALVED IRON STANDARDS IN CONCRETE OR WITHOUT CONCRETE MAY NOT BE TAMPERED WITH.
7. BOUNDARY BEACONS CONSISTING OF WOODEN PEGS IN CONCRETE OR WITHOUT CONCRETE MAY BE REPLACED BY A CORNER POST AND TWO STRAINING POSTS.
8. CADASTRAL BEACONS MAY NOT BE TAMPERED WITH, UNDER ANY CIRCUMSTANCES.

FASTENING OF BARBED WIRE TO STANDARDS DROPPERS AND POSTS

SCALE 1:5

JUNCTIONS AND INTERSECTIONS
ROAD ACCESSES

ROADS - T-JUNCTIONS

No.	DATE	REVISION
V1	08/03/2024	ORIGINAL VERSION

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
BUILDING SOUTH AFRICA THROUGH BETTER ROADS

WESTERN REGION
1 Havenga Street
Oakdale
Bellville
7530

Private Bag X19
Bellville
7535

Tel: (021) 957 4600

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 CAPACITY IMPROVEMENT OF NATIONAL ROUTE 1 SECTION 1 FROM OLD OAK INTERCHANGE (KM 18.90) TO KOELENHOF INTERCHANGE (KM 33.00)

FENCING AND RELATED ITEMS
GAME PROOF FENCING
ON STEEL POSTS

SCALE @ A0: AS SHOWN | SHEET 1 OF 1

PROJECT NUMBER	N001-010-2021/1	
DRAWING LOCATION DATA	START	END
ROUTE	N01	N01
SECTION	01	01
DRAWING km DISTANCE	18.900	33.000
DRAWING TYPE	ROADS - FENCING	
BRIDGE/STRUCTURE No.	N/A	
CONSULTANT DRAWING No.	312-00827-01-TD04	VER
SANRAL DOCUMENT #	XXXXXX	V1

312-00827-01-TD04