



**DEPARTMENT OF RURAL DEVELOPMENT
AND
AGRARIAN REFORM**

STANDARD INFRASTRUCTURE DRAWINGS

**TO BE READ TOGETHER WITH:
SPECIFICATION OF CONSTRUCTION MATERIALS AND
METHODS TO BE USED FOR AGRICULTURAL ON-FARM INFRASTRUCTURE**

All references to South African Bureau of Standards Specifications and Codes of Practice in this Document shall be deemed to refer to the latest issue of such specifications and codes as may be amended from time to time and are to be read in conjunction with the latest issue of the National Building Regulations

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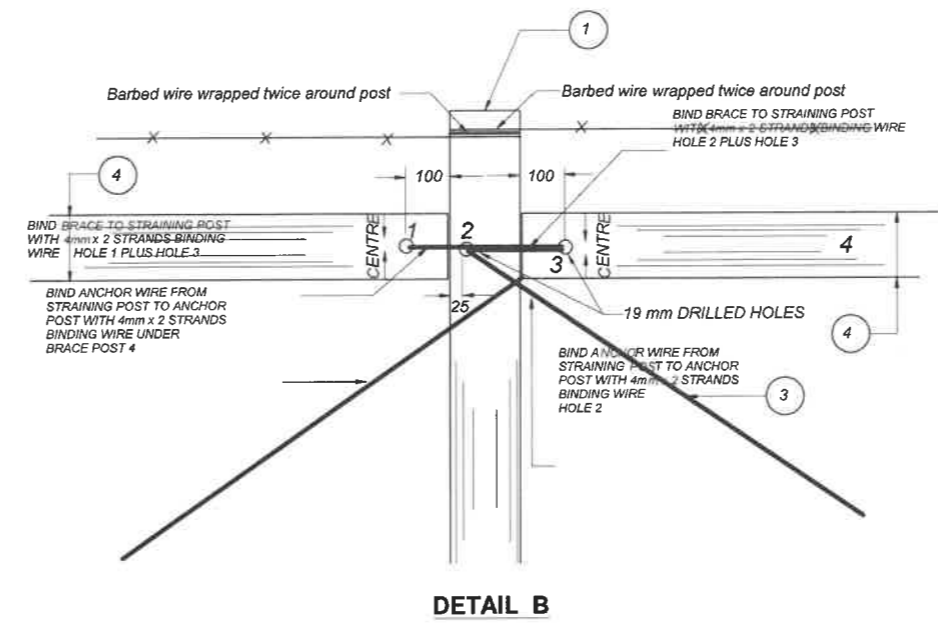
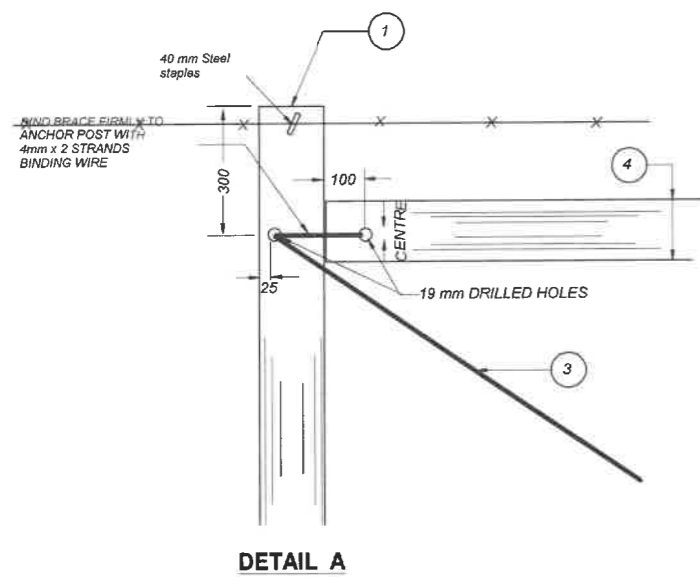
**DIRECTORATE ENGINEERING SERVICES
SECOND EDITION APRIL 2022**

REVISION: DRDAR SCMM-02/2022

TABLE OF CONTENTS

19.1 STANDARD STOCK PROOF FENCE (1,2m)	3
19.2 STANDARD STOCK PROOF FENCE (1,4m)	4
19.3 STANDARD VERMIN PROOF FENCE (1,2m).....	5
19.3 STANDARD VERMIN PROOF FENCE (1,4m).....	6
21 STANDARD STOCK WATER SYSTEM.....	7
22 STANDARD CATTLE PLUNGE DIP TANK (STEEL)	8
23 STANDARD CATTLE PLUNGE DIP TANK (TIMBER)	9
24 STANDARD SHEEP SHEARING SHED	10
25 PRE-FABRICATED SHEEP HANDLING FACILITIES.....	11
26 SHEEP SHEARING EQUIPMENT	12
27 STANDARD PIT TOILET	13
28 SHEEP PLUNGE DIP TANK.....	14
29 SMALL STOCK HANDLING FACILITIES.....	15
30 LARGE STOCK HANDLING FACILITIES	16
31 CATTLE SPAY RACE (STEEL)	17
32 CATTLE SPAY RACE (TIMBER).....	18
33 STANDARD MULTI-PURPOSE SHED	19
34 DIP TANK STORAGE SHED	20

19.1 STANDARD STOCK PROOF FENCE (1,2m)



LEGEND

1
125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST
CORNER, STRAINING AND ANCHOR POSTS

3
4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE

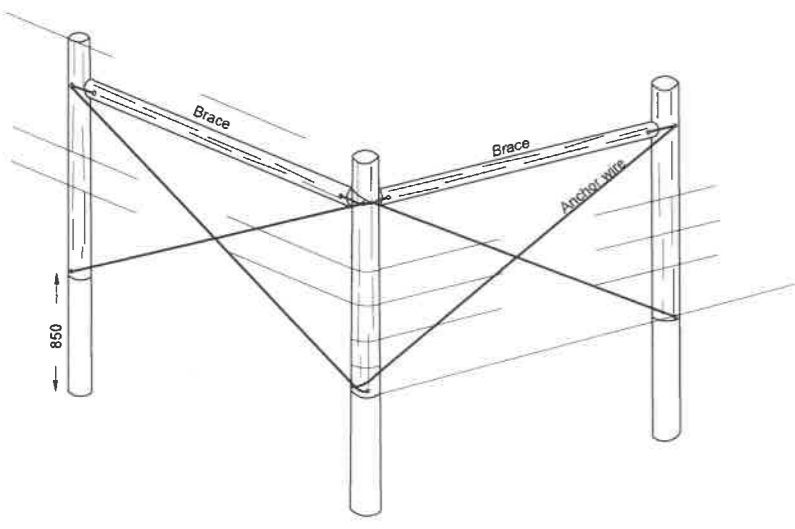
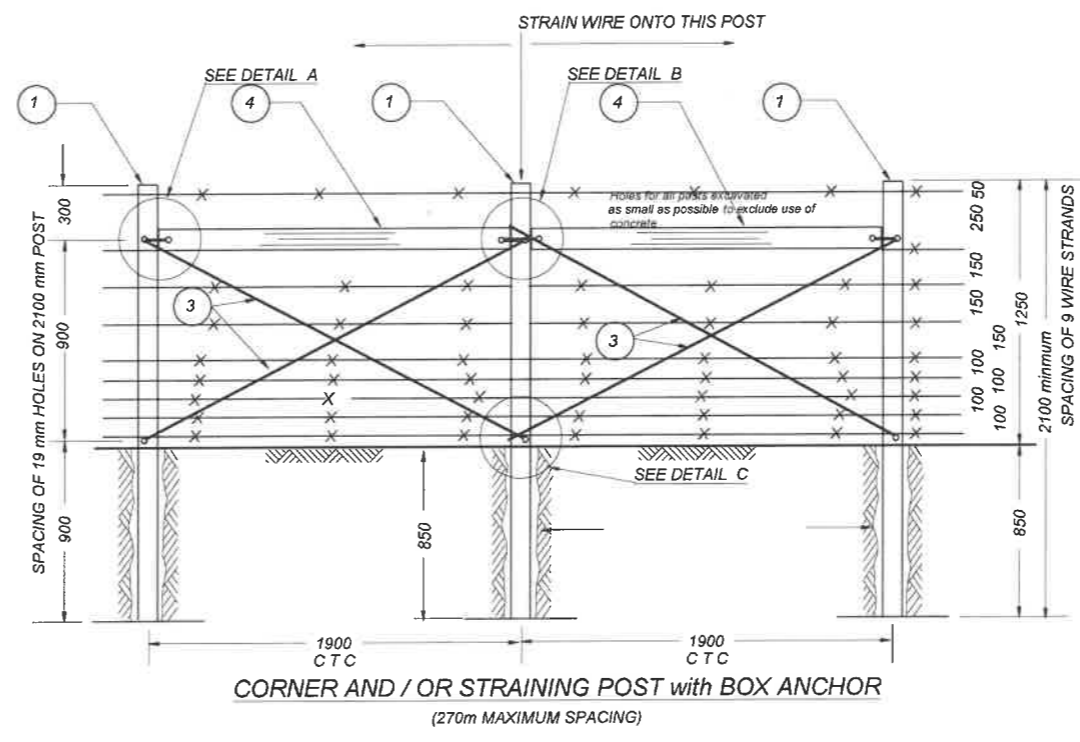
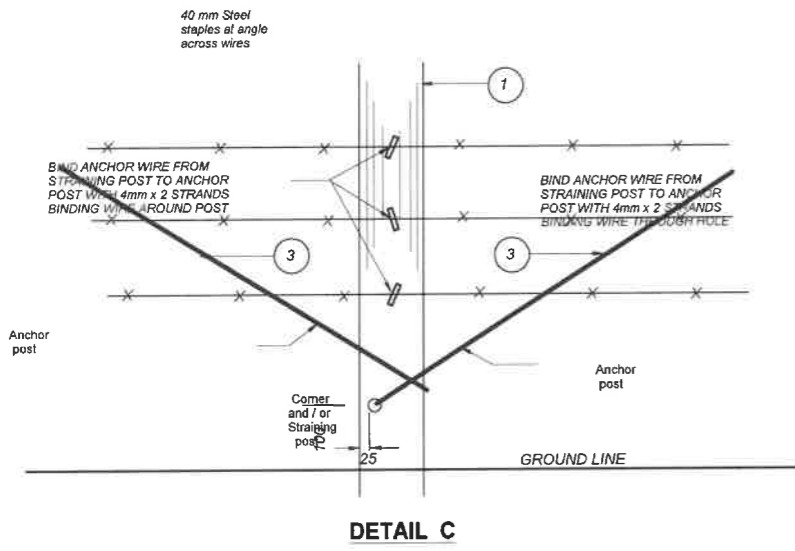
4
100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST
BRACES IN BOX ANCHORS

NOTES:

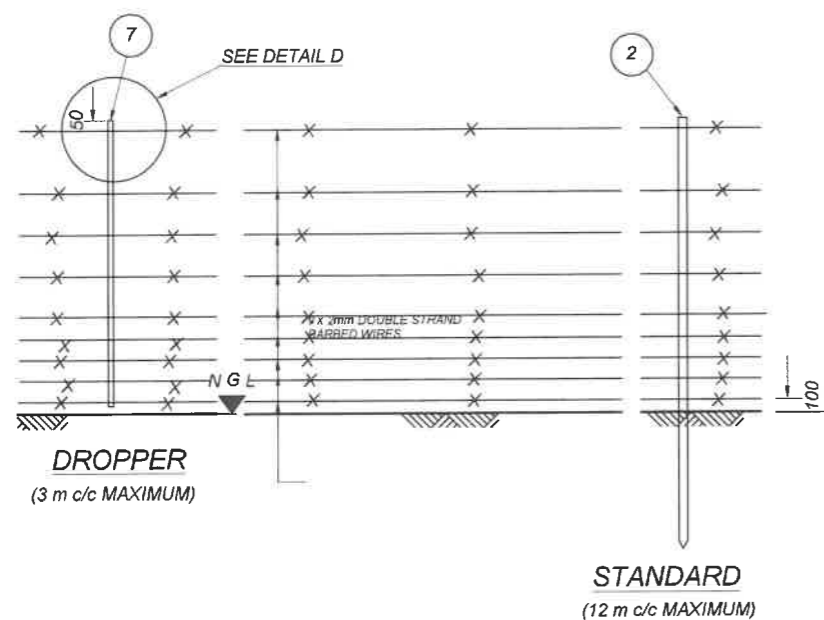
1. 40 mm STAPLES REQUIRED FOR CORNER POSTS
and STRAINING POSTS

2. THIS DRAWING TO BE READ IN CONJUNCTION
WITH THE PROJECT PARTICULAR SPECIFICATIONS
FOR FENCES

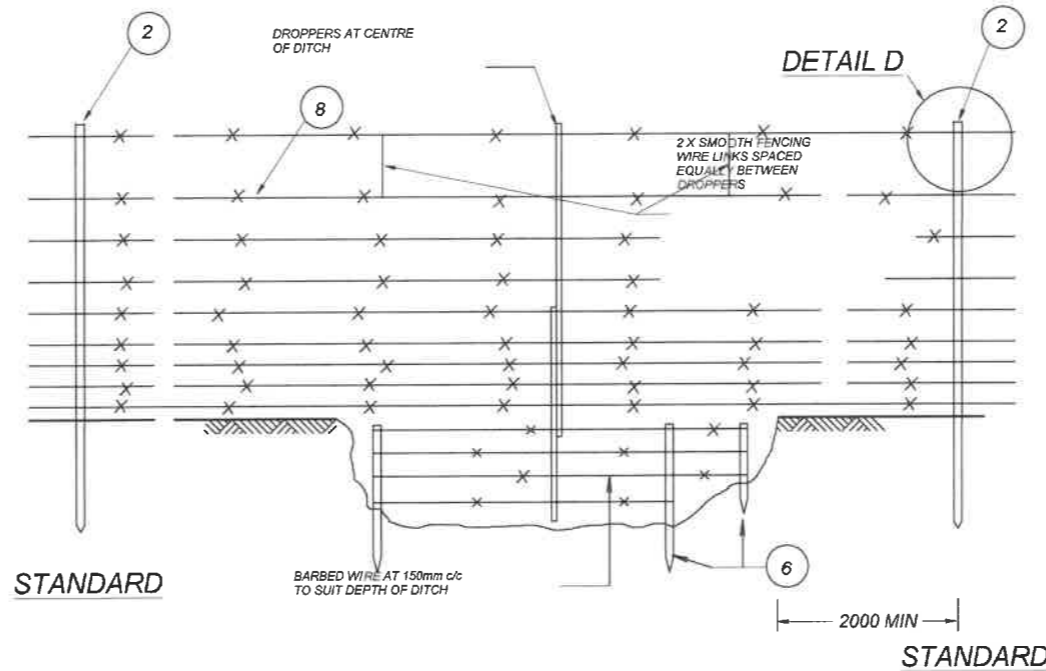
NGL NATURAL GROUND LEVEL



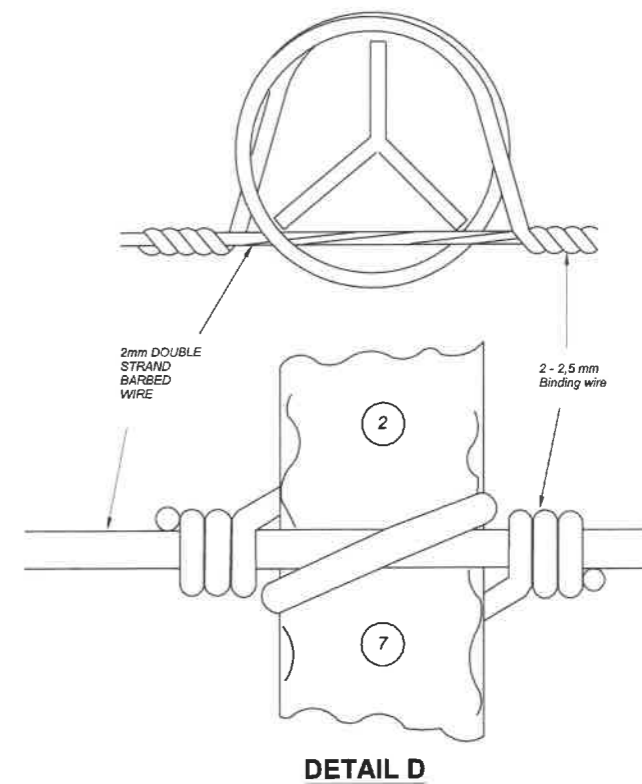
NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD STOCK PROOF FENCE	SCALE	INDEX NO.
					NTS	SCMM-02/19/01
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	1,2m HIGH - 9 STRAND FENCE	A3 ORIGINAL	PLAN NO. SHEET 1 OF 6



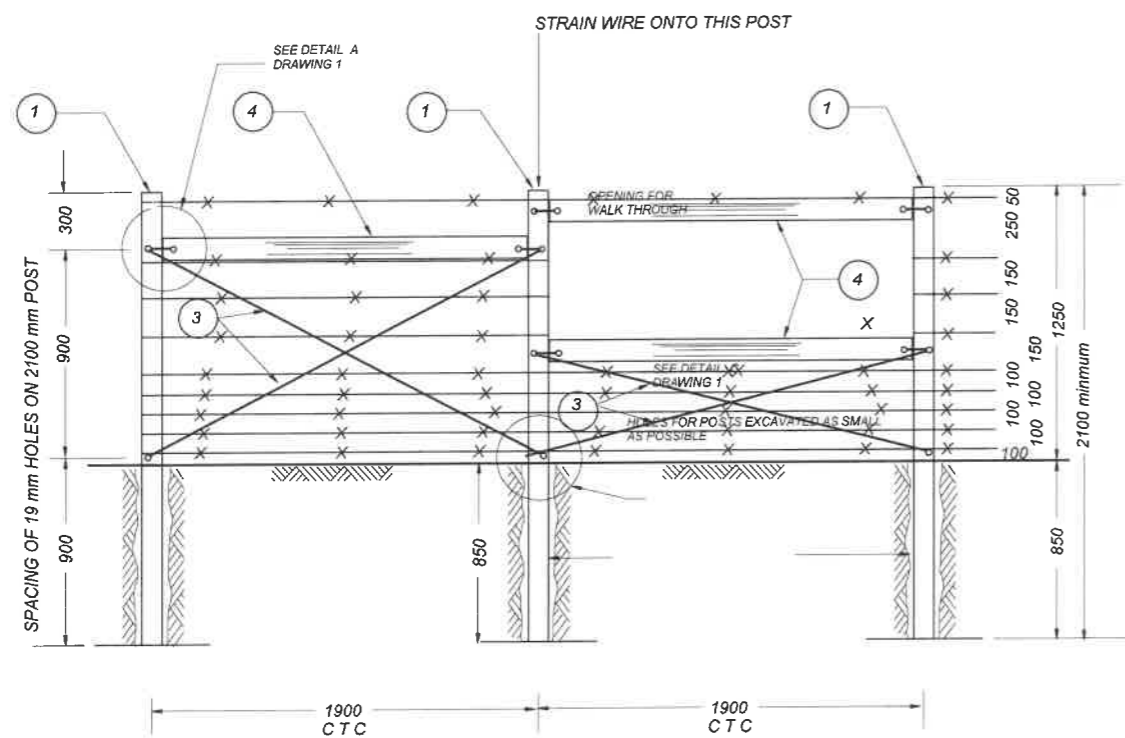
STOCK PROOF FENCE



CROSSING CANALS AND TRENCHES



DETAIL D



STRAINING POST with BOX ANCHOR WALKTHROUGH
(270m MAXIMUM SPACING)

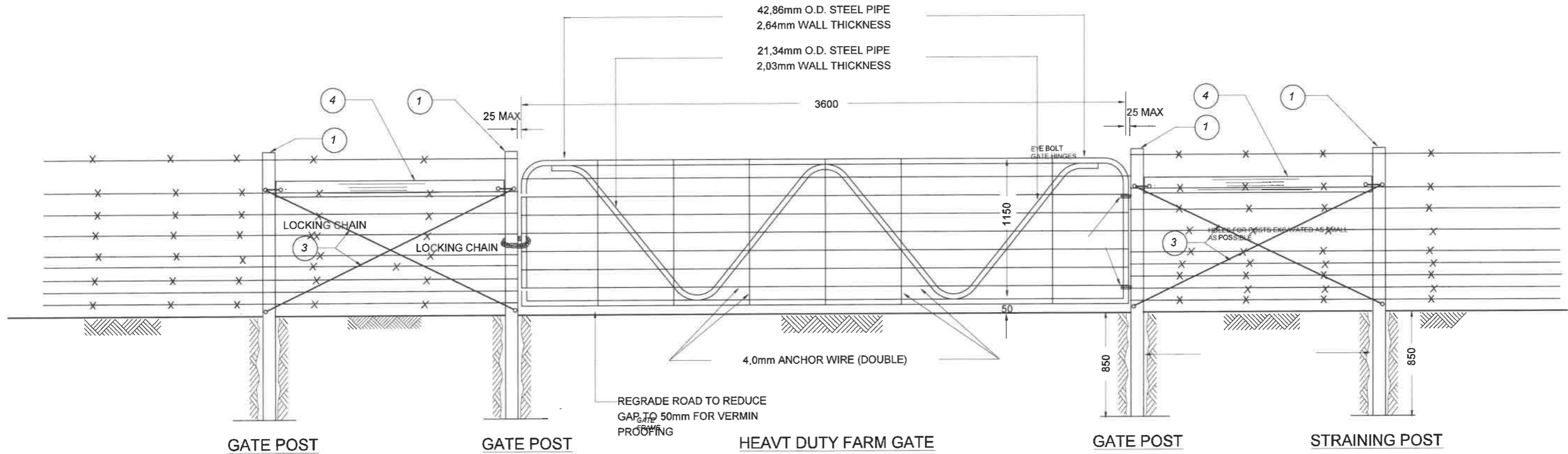
LEGEND

- 1 — 125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST CORNER, STRAINING AND ANCHOR POSTS
- 2 — 2,0 kg/m x 1800 mm Y SECTION IRON STANDARD
- 3 — 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- 4 — 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST BRACES IN BOX ANCHORS
- 5 — STANDARDS EMBEDDED IN CLASS 20/19 CONCRETE IF ORDERED BY THE ENGINEER
- 6 — STAKES (DROPPER PROFILE) OF SUITABLE LENGTH DRIVEN FIRMLY INTO SIDES & BED OF TRENCH AT APPROVED SPACINGS. STAKES TO BE ALIGNED WITH & TIED TO DROPPERS WITH WIRE WHERE REQUIRED.
- 7 — 0,56 kg/m x 1250 mm RIDGEBACK PATTERN IRON DROPPER
- 8 — Barbed wire, 2 x 2mm, galvanized, SABS approved
- 9 — High Tensile 2.24mm dia plain wire, galvanized, SABS approved.
- 10 — Netting wire, 1.8mm dia, 1200mm x 90mm hexagonal mesh

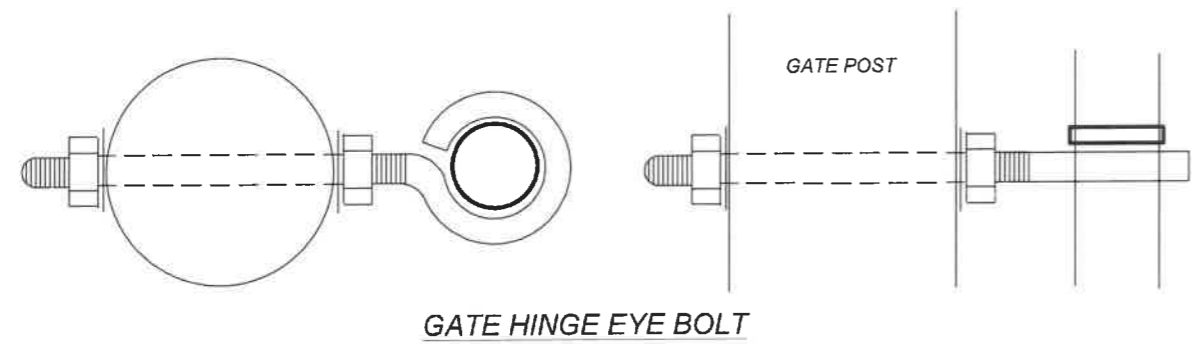
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NOTES: 1. 40 mm STAPLES REQUIRED FOR CORNER POSTS and STRAINING POSTS
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				1,2m HIGH - 9 STRAND FENCE		NTS	SCMM-02/19/02
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			A3 ORIGINAL	PLAN NO. SHEET 2 OF 6



FARM GATES



LEGEND

- 1 — 125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST
CORNER, STRAINING, GATE AND ANCHOR POSTS
- 3 — 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- 4 — 100 - 125mm TOP DIAMETER x 1900 mm TREATED TIMBER POST
BRACES IN BOX ANCHORS

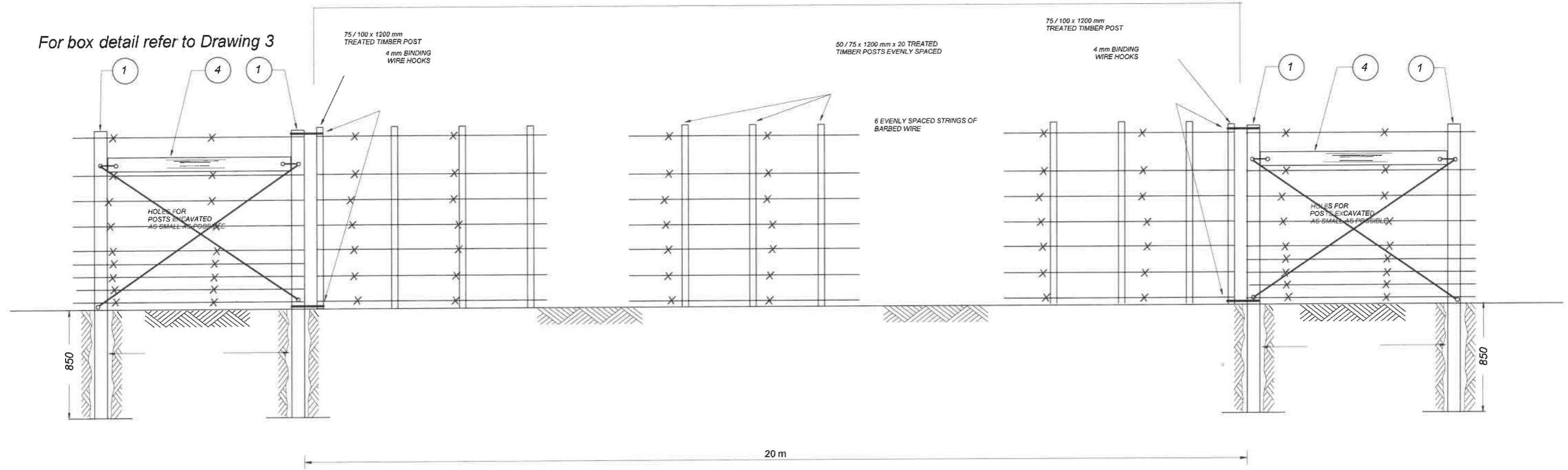
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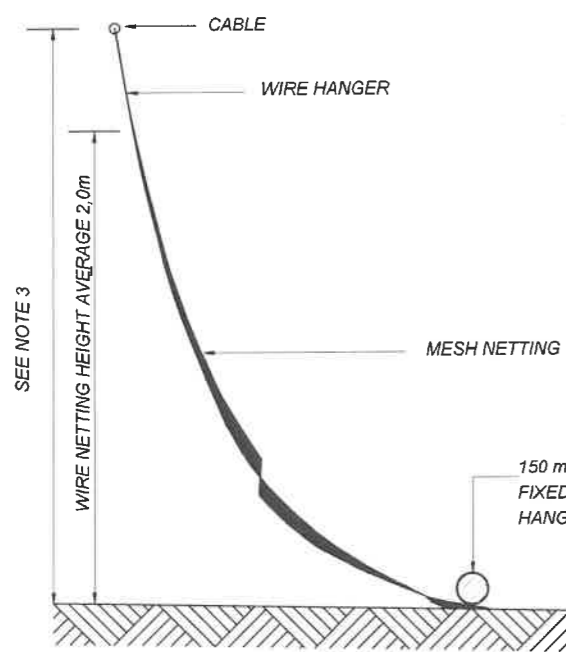
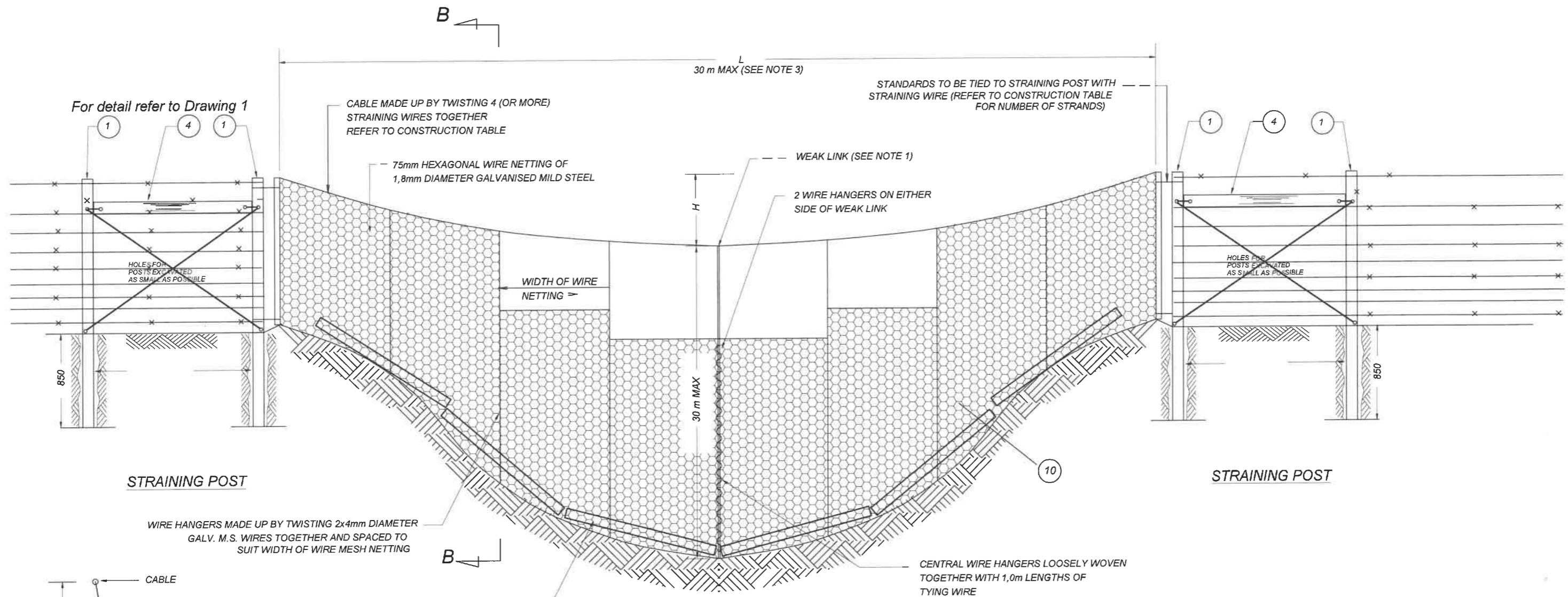
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				1,2m HIGH - 9 STRAND FENCE	NTS	SCMM-02/19/03
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE AD1 STUTTERHEIM 4930		A3 ORIGINAL	PLAN NO. SHEET 3 OF 6

REMOVABLE FENCE



OPENING FOR WIDE IMPLEMENTS

NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER) APRIL 2022 (DATE APPROVED)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	STANDARD STOCK PROOF FENCE	SCALE	INDEX NO.		
						NTS	SCMM-02/19/04	
						1,2m HIGH - 9 STRAND FENCE	A3 ORIGINAL	PLAN NO.
								SHEET 4 OF 6

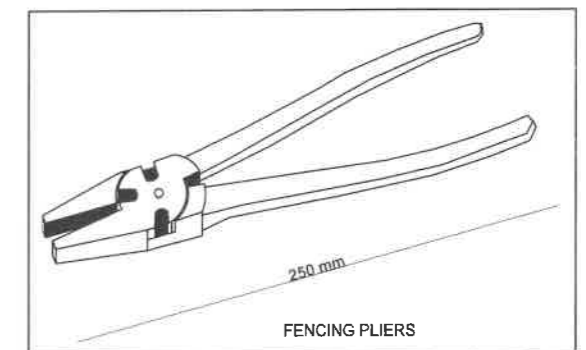
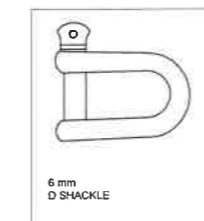
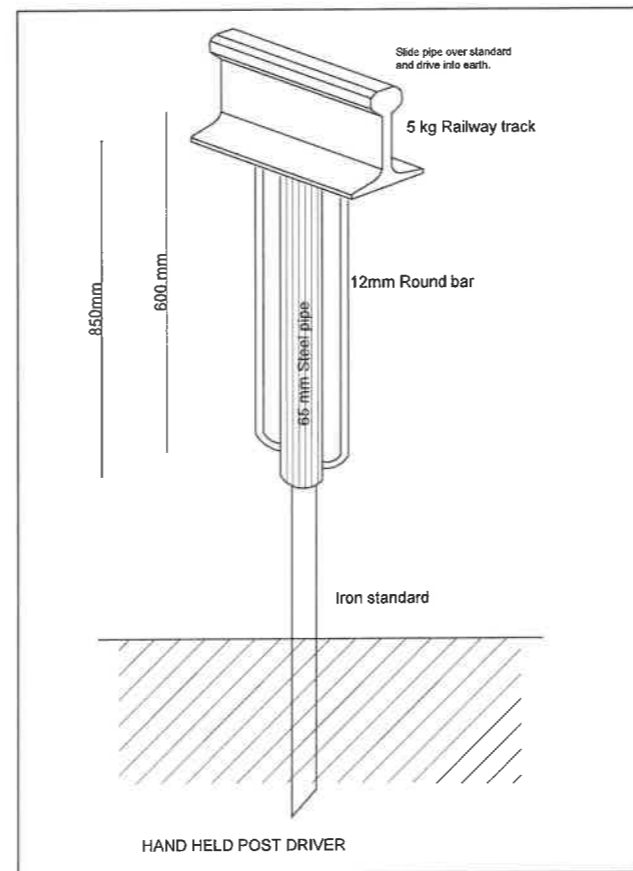
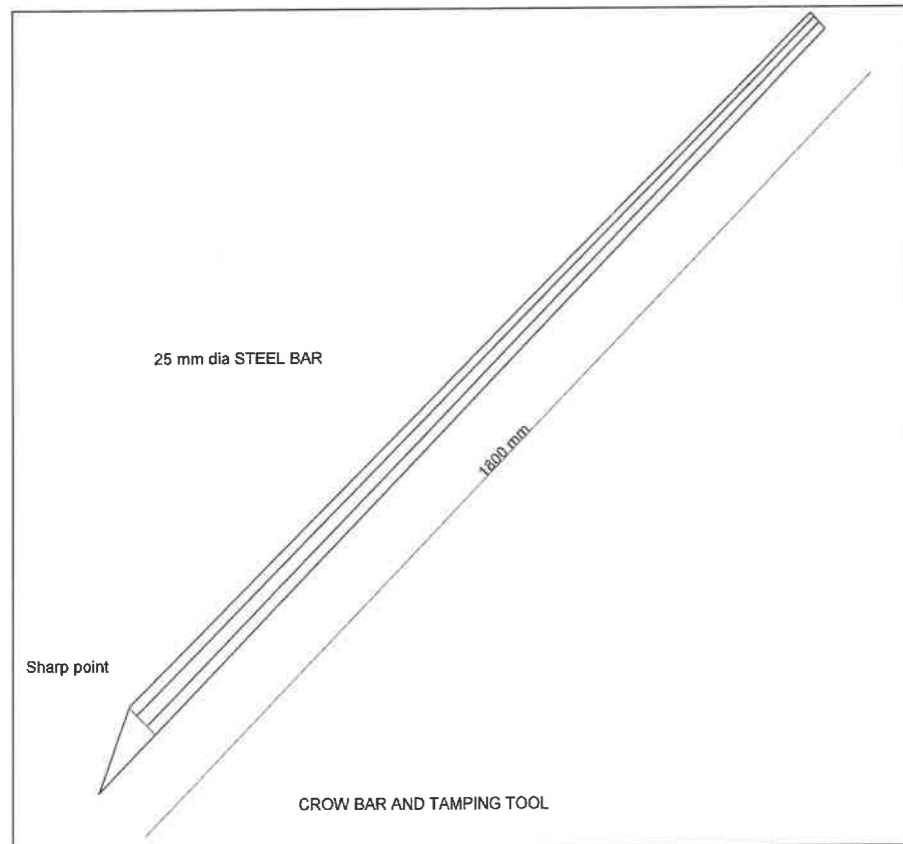
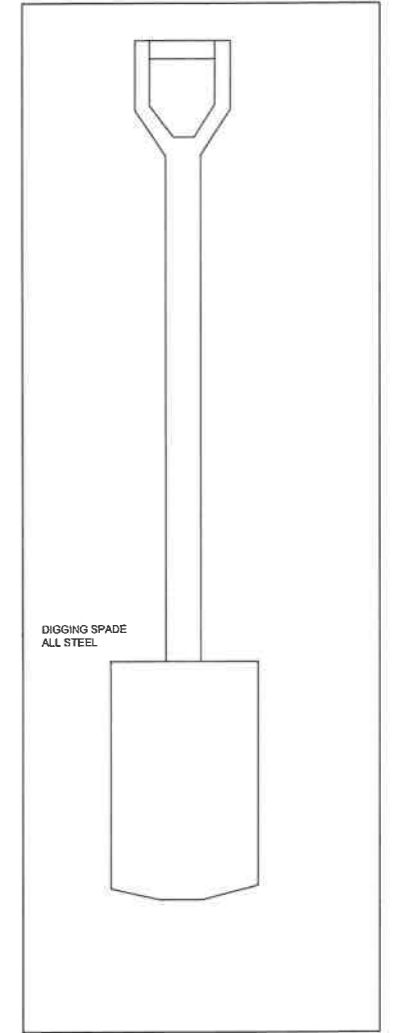
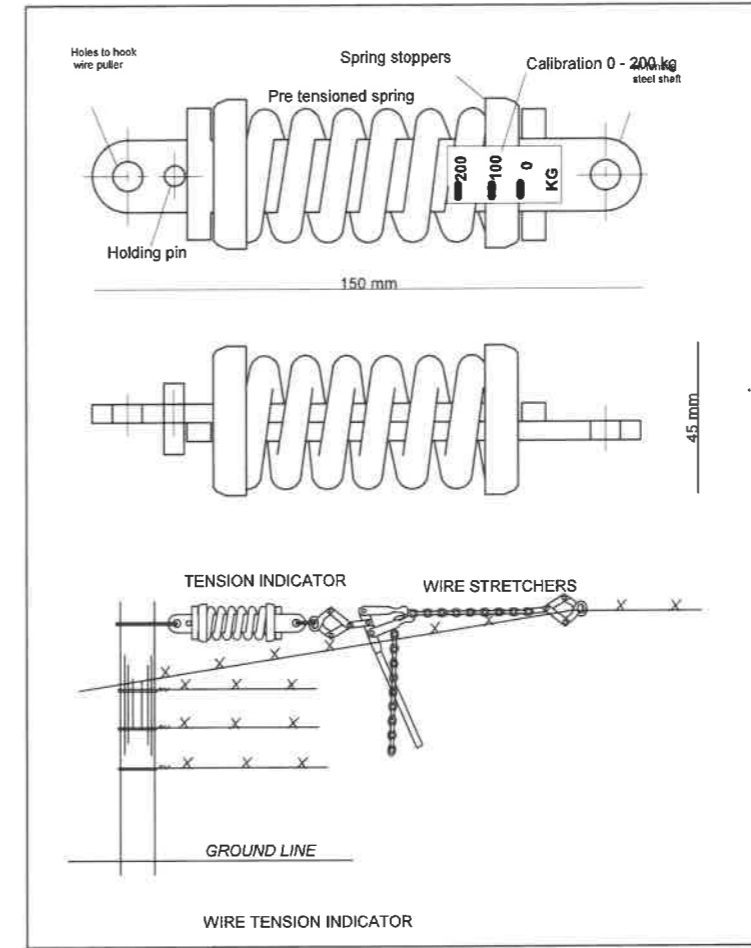
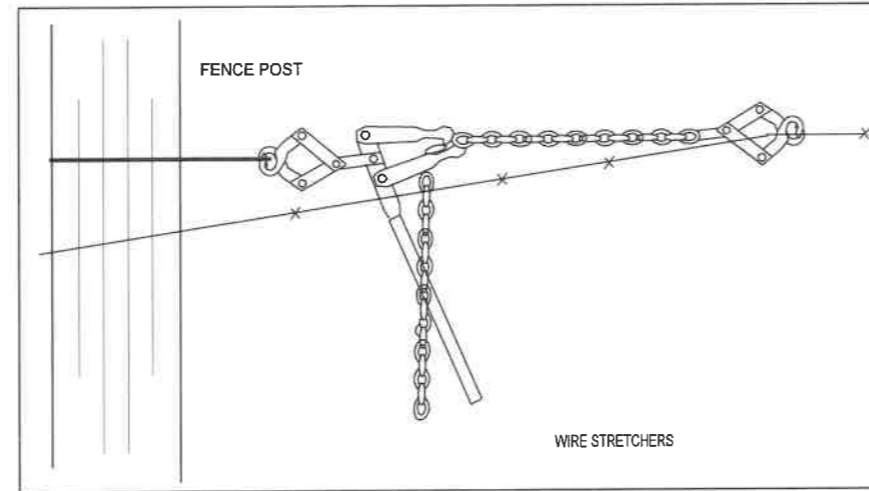
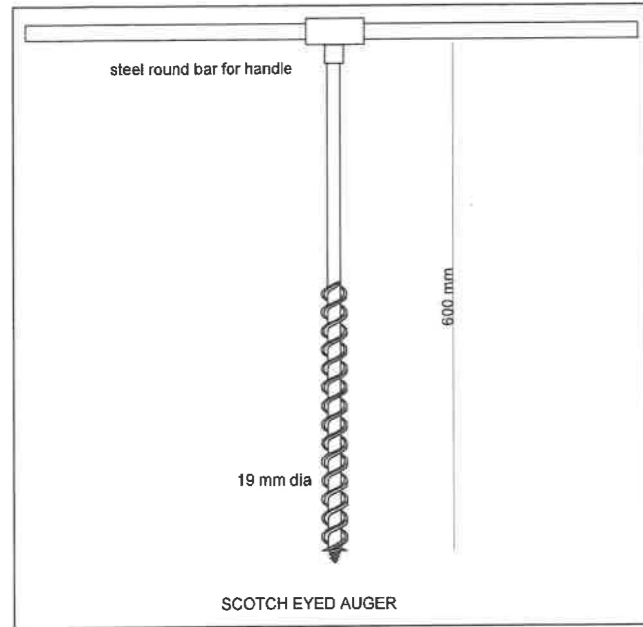


CLOSING OF OPENINGS

CONSTRUCTION TABLE			
SPAN L (m)	No OF STRAINING WIRES	H (m)	No OF LOOPS IN WEAK LINK
10	4	0.2	2
15	4	0.3	2
20	4	0.5	2
25	6	0.6	3
30	6	0.8	3
>30	SPECIAL DESIGN BY THE ENGINEER		

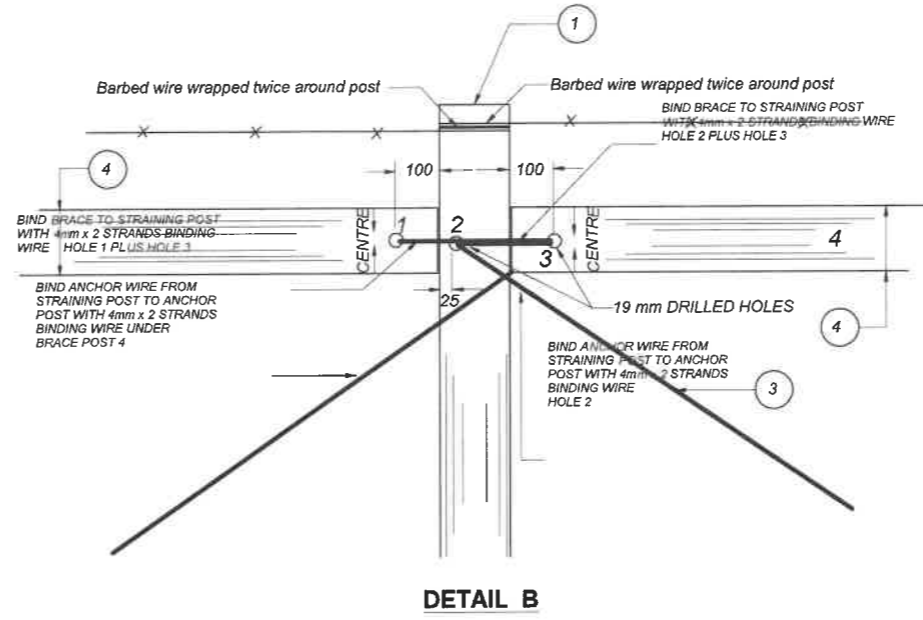
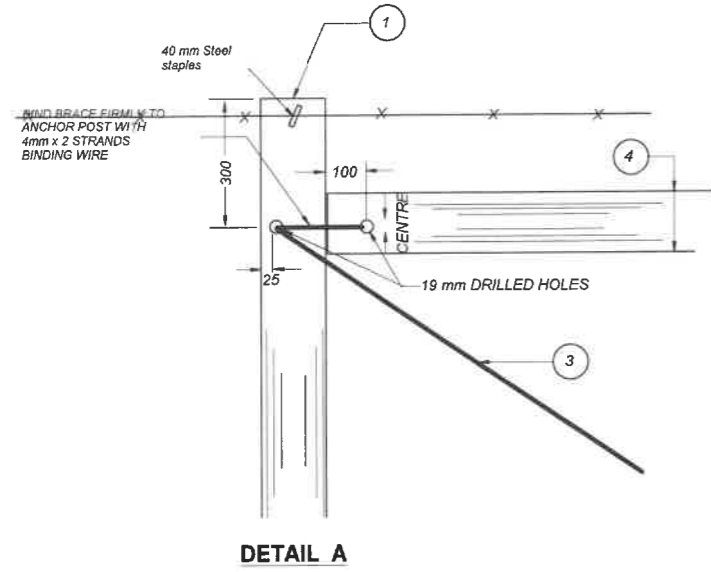
- NOTES :**
1. WEAK LINK IN CABLE MAY BE POSITIONED EITHER AT END STANDARDS OR IN CENTRE OF CABLE AS SHOWN. FORM BY LOOPING A STRAINING WIRE THROUGH WIRE HANGERS. NUMBER OF LOOPS ARE TABULATED IN CONSTRUCTION TABLE.
 2. WHEN HEIGHT OF CABLE IS LESS THAN 2,0m, WIRE HANGERS MAY BE OMITTED AND NETTING LAPPED HORIZONTALLY.
 3. IF LENGTH OF WIRE NETTING EXCEEDS 30m FENCING TO BE DESIGNED BY THE ENGINEER.
- 10 — Netting wire, 1,8mm dia, 1200mm x 90mm hexagonal mesh

NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	STANDARD STOCK PROOF FENCE	SCALE	INDEX NO.
					1,2m HIGH - 9 STRAND FENCE	NTS	SCMM-02/19/05
		APRIL 2022 (DATE APPROVED)			A3 ORIGINAL	PLAN NO.	SHEET 5 OF 6



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					NTS	SCMM-02/19/06		
						1,2m HIGH - 9 STRAND FENCE	A3 ORIGINAL	PLAN NO.
								SHEET 6 OF 6

19.2 STANDARD STOCK PROOF FENCE (1,4m)



LEGEND

1
125 - 150mm TOP DIAMETER x 2400 mm TREATED TIMBER POST
CORNER, STRAINING AND ANCHOR POSTS

3
4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE

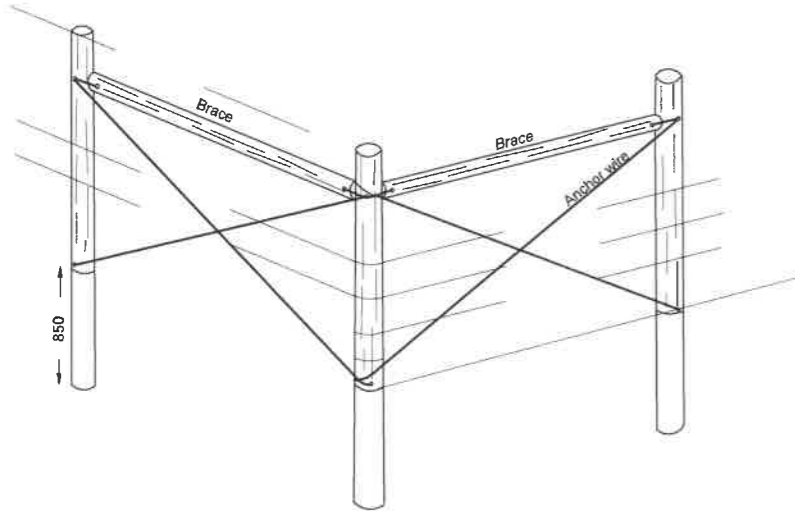
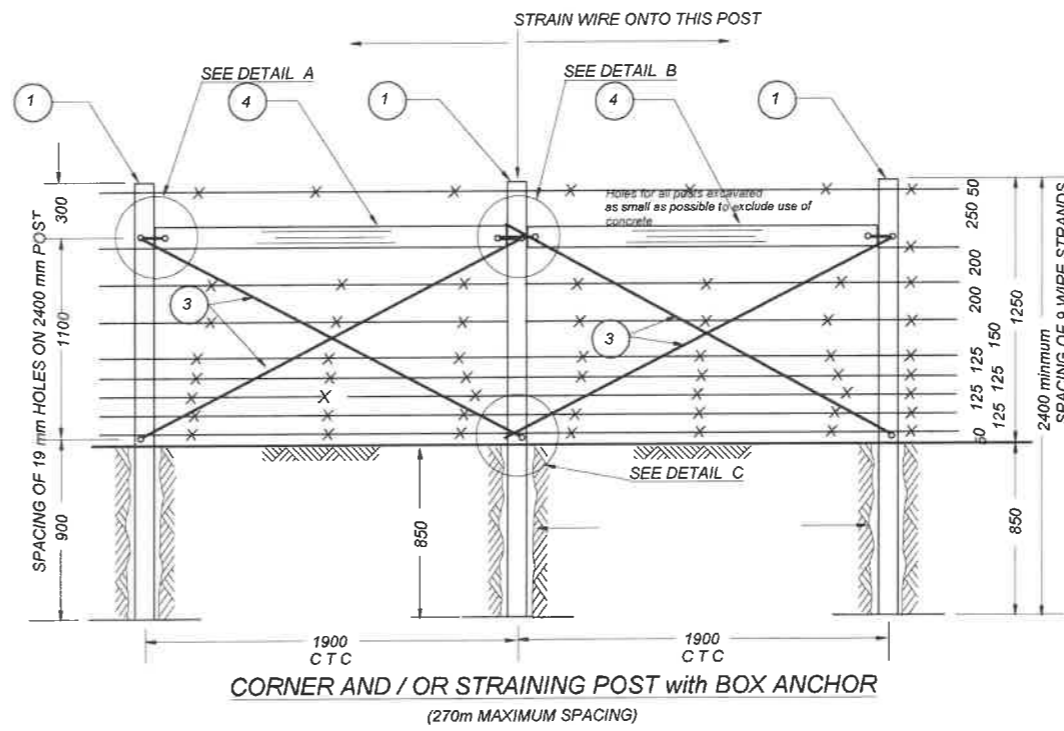
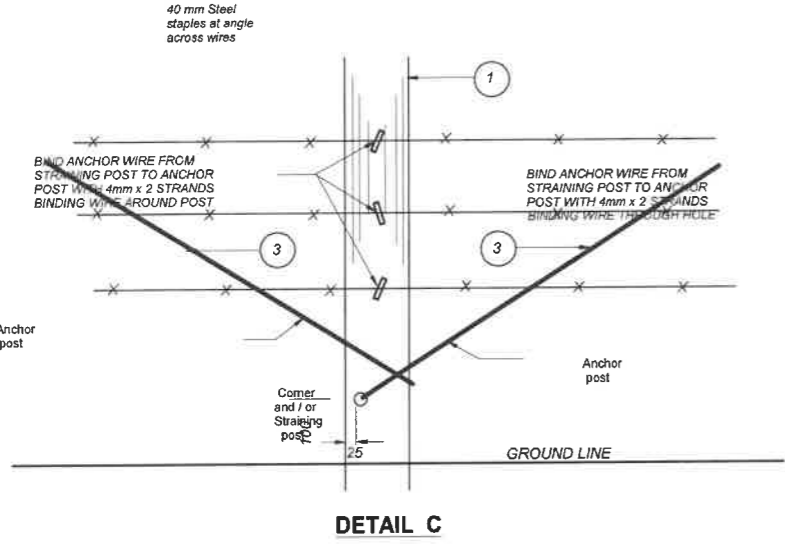
4
100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST
BRACES IN BOX ANCHORS

NOTES:

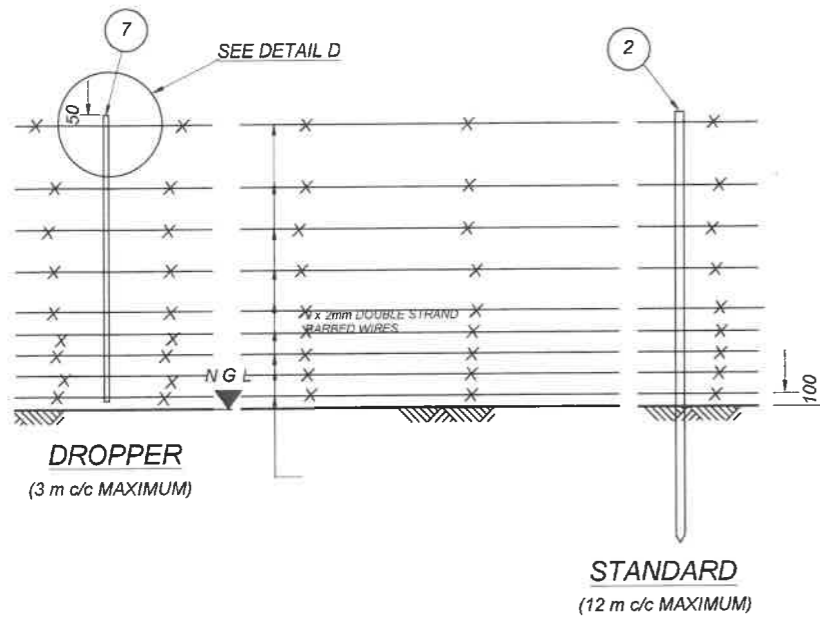
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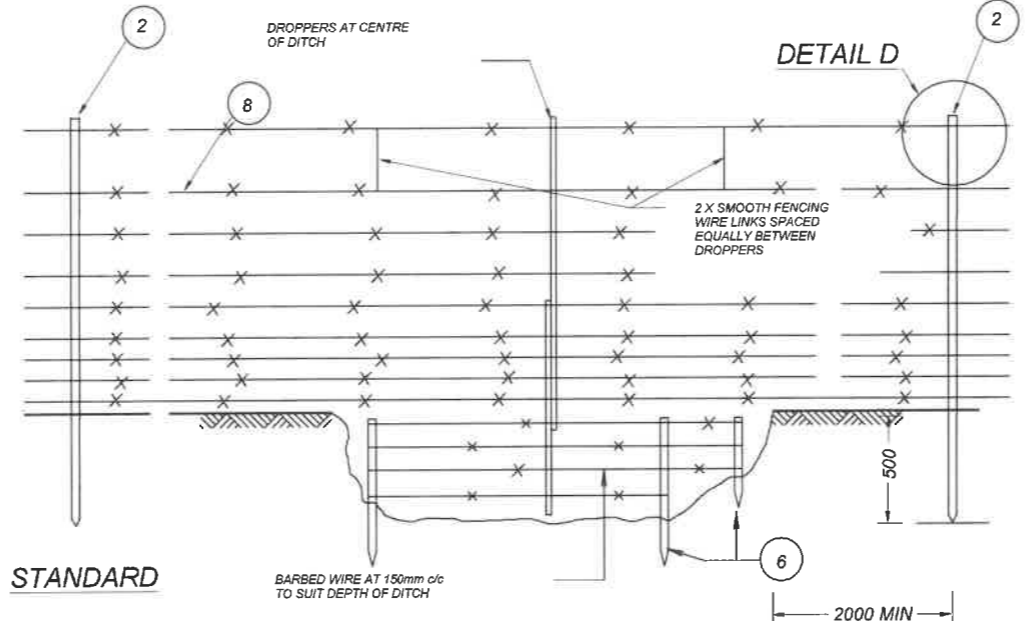
NGL NATURAL GROUND LEVEL



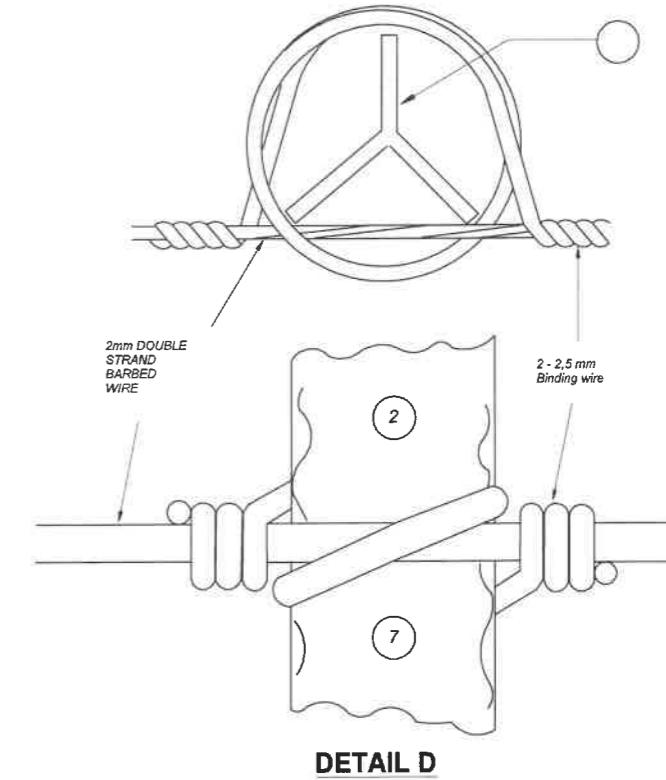
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					APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930
					A3 ORIGINAL	PLAN NO. SHEET 1 OF 6



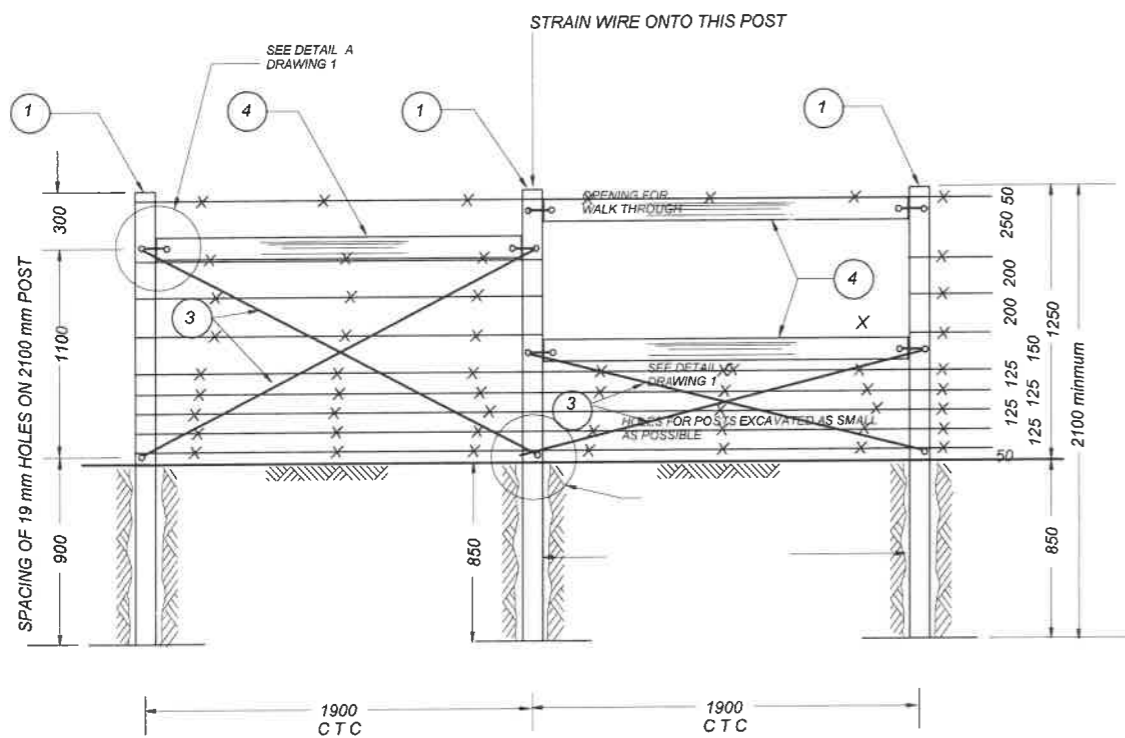
STOCK PROOF FENCE



CROSSING CANALS AND TRENCHES



DETAIL D



STRAINING POST with BOX ANCHOR WALKTHROUGH
(270m MAXIMUM SPACING)

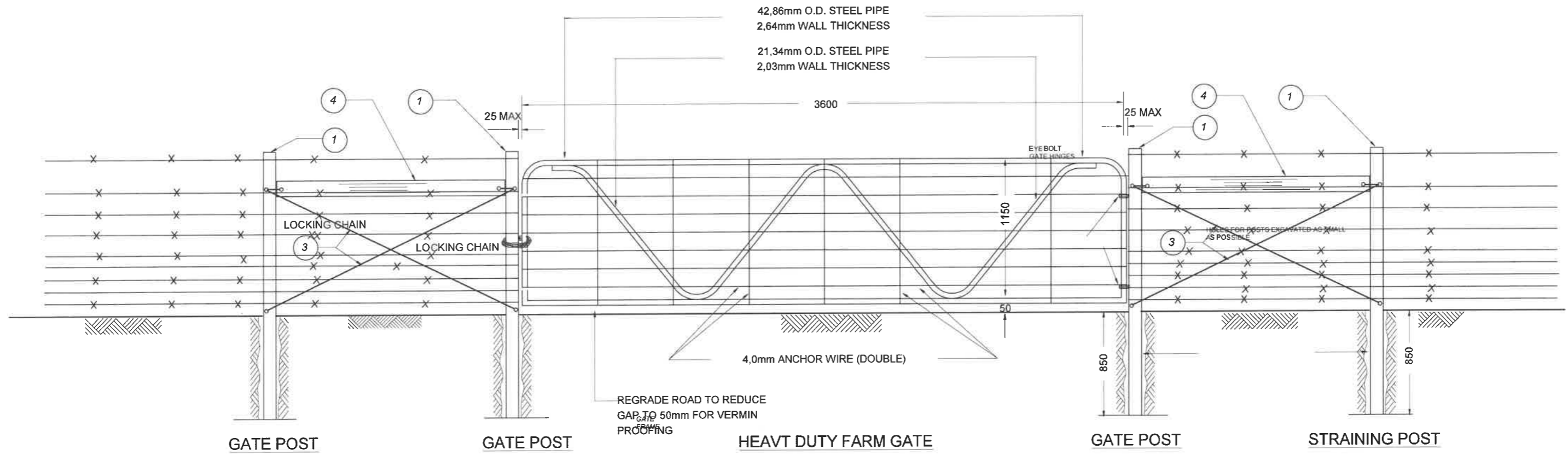
LEGEND

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CORNER, STRAINING AND ANCHOR POSTS
- 2 — 2,0 kg/m x 1800 mm Y SECTION IRON STANDARD
- 3 — 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- 4 — 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST
BRACES IN BOX ANCHORS
- 5 — STANDARDS EMBEDDED IN CLASS 20/19 CONCRETE IF ORDERED BY THE ENGINEER
- 6 — STAKES (DROPPER PROFILE) OF SUITABLE LENGTH DRIVEN FIRMLY INTO SIDES &
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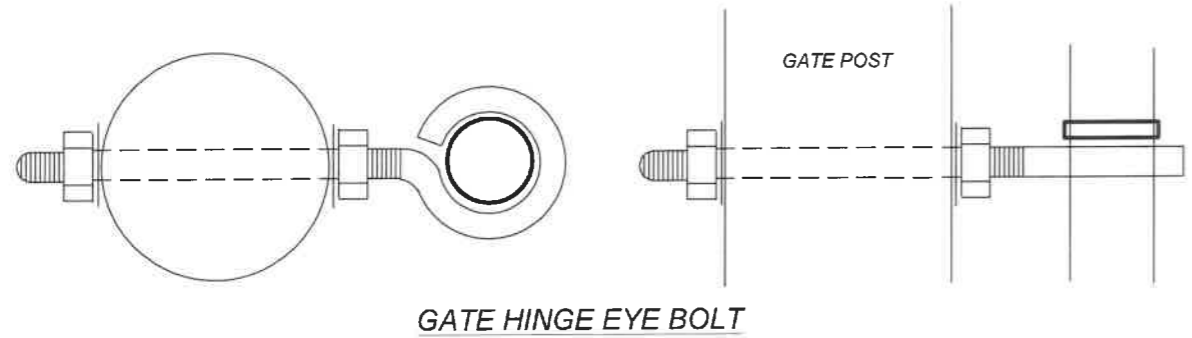
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				1,4m HIGH - 9 STRAND FENCE		NTS	SCMM-02/19/02
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			A3 ORIGINAL	PLAN NO. SHEET 2 OF 6



FARM GATES



LEGEND

1 — 125 - 150mm TOP DIAMETER x 2400 mm TREATED TIMBER POST
CORNER, STRAINING, GATE AND ANCHOR POSTS

3 — 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE

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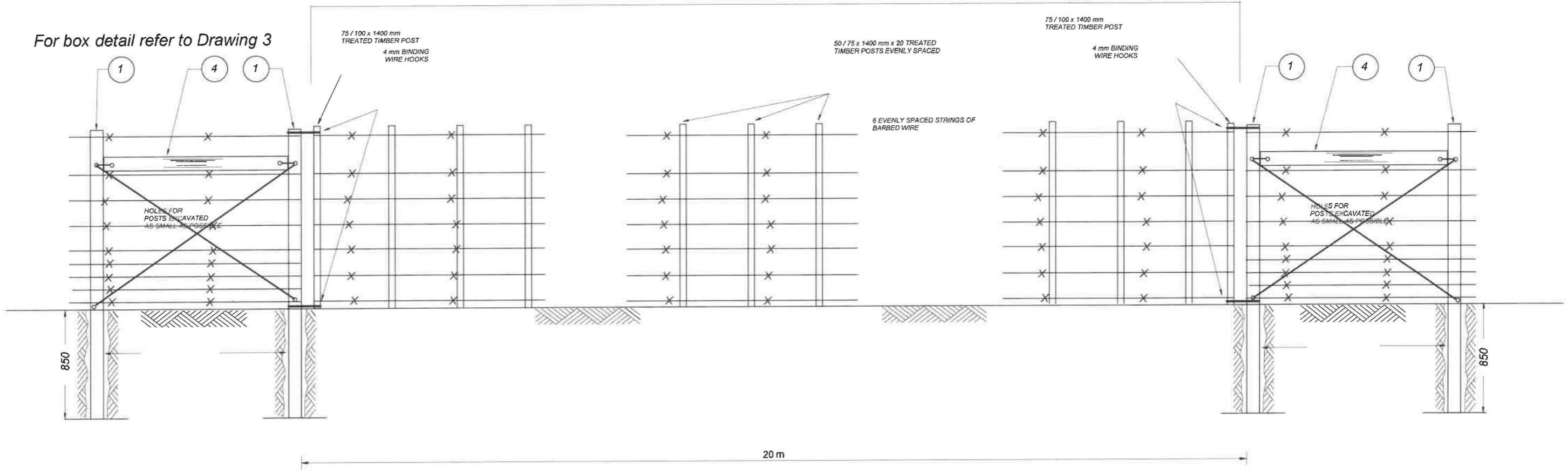
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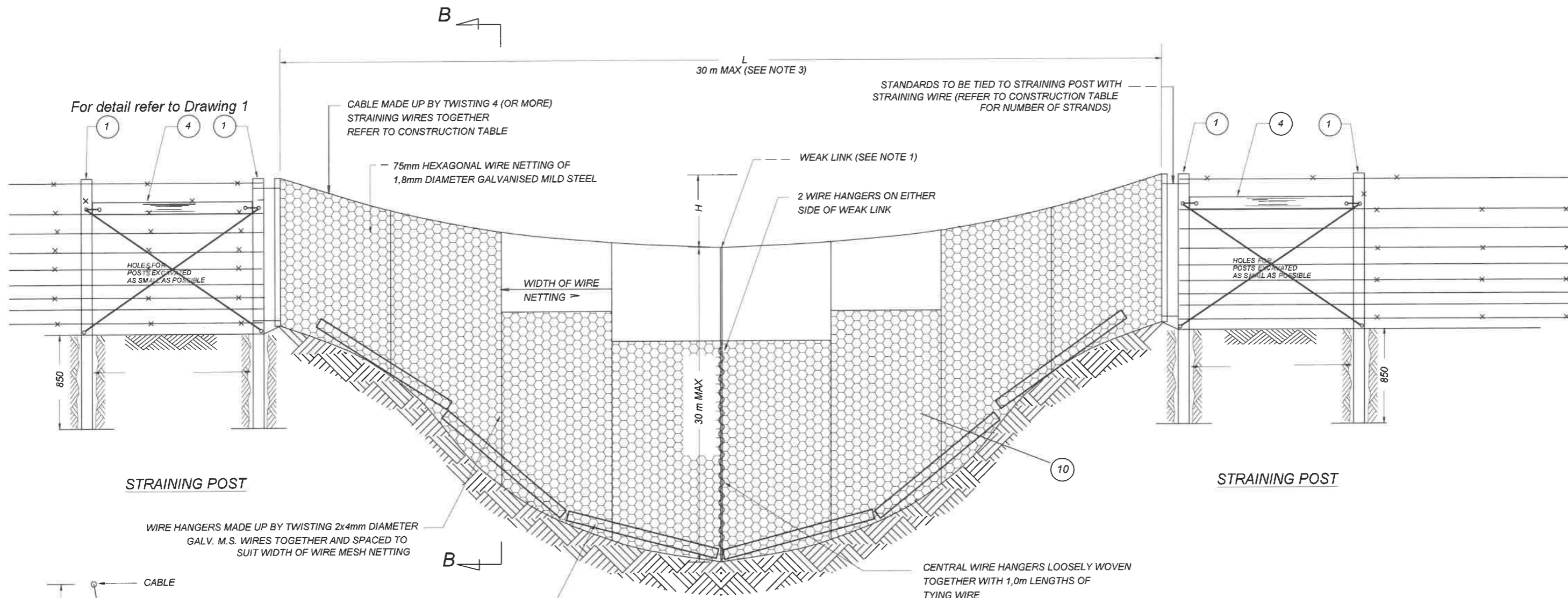
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REMOVABLE FENCE



OPENING FOR WIDE IMPLEMENTS

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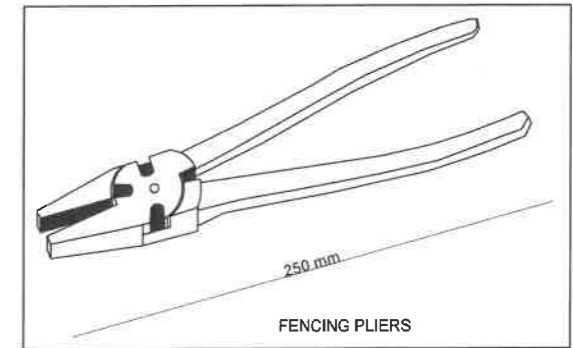
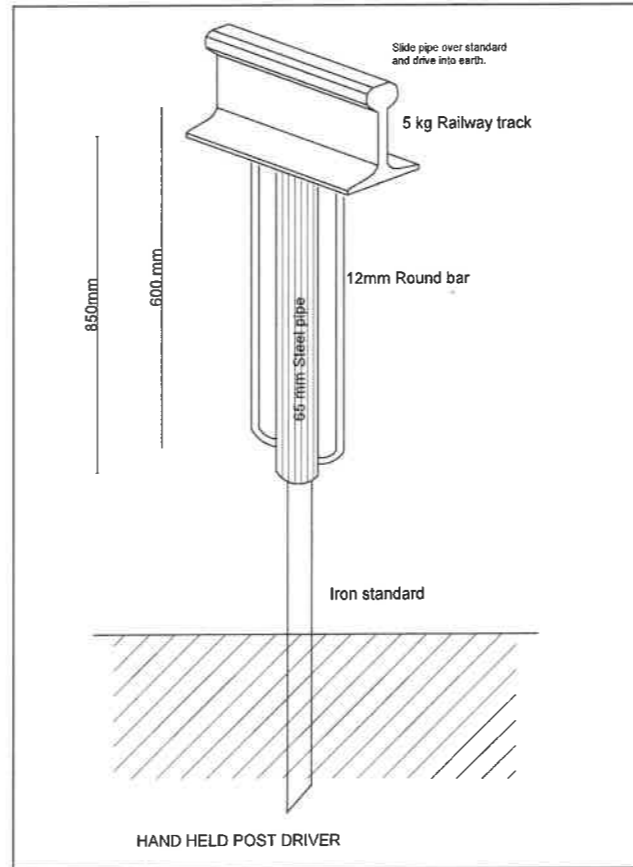
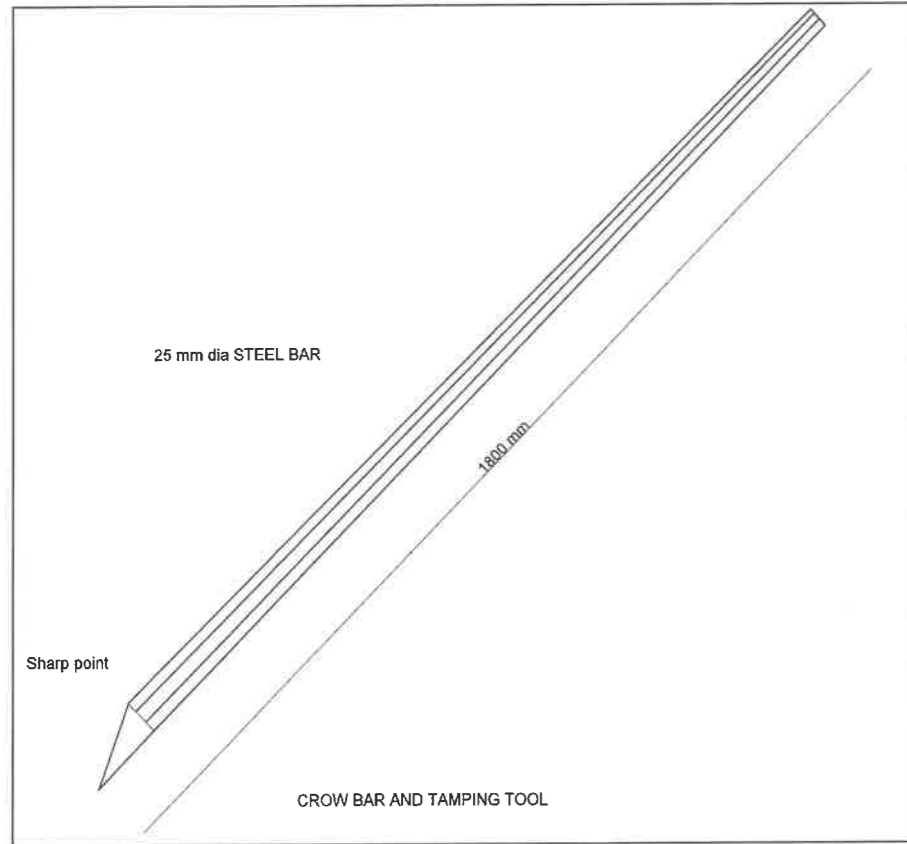
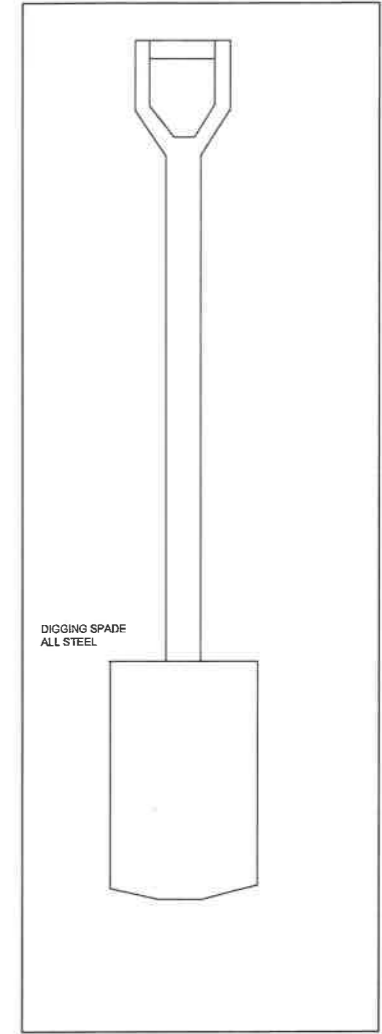
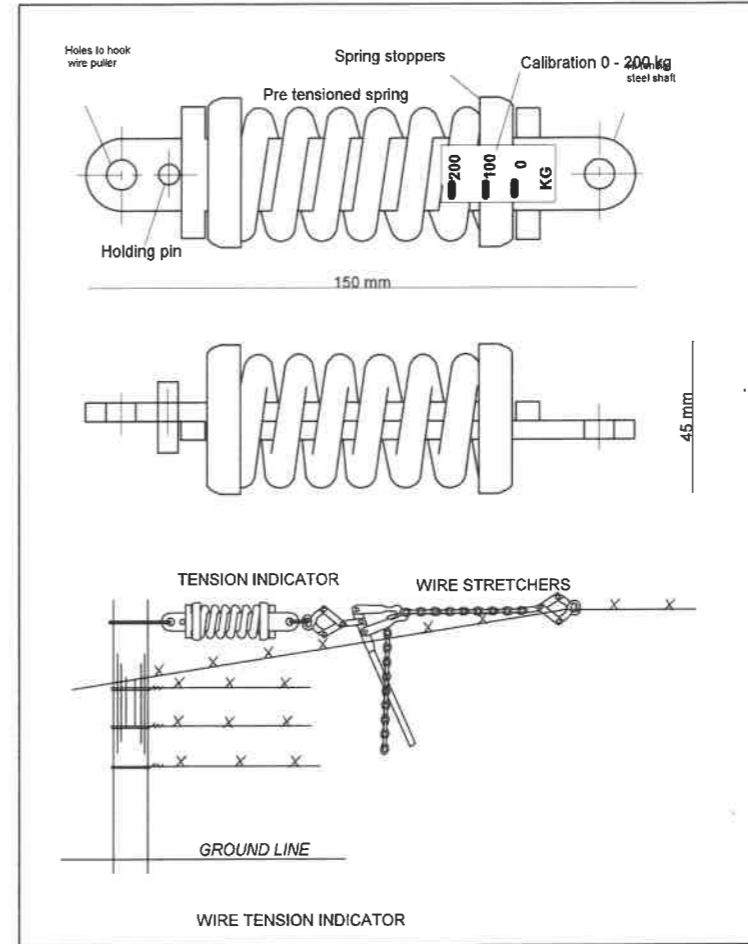
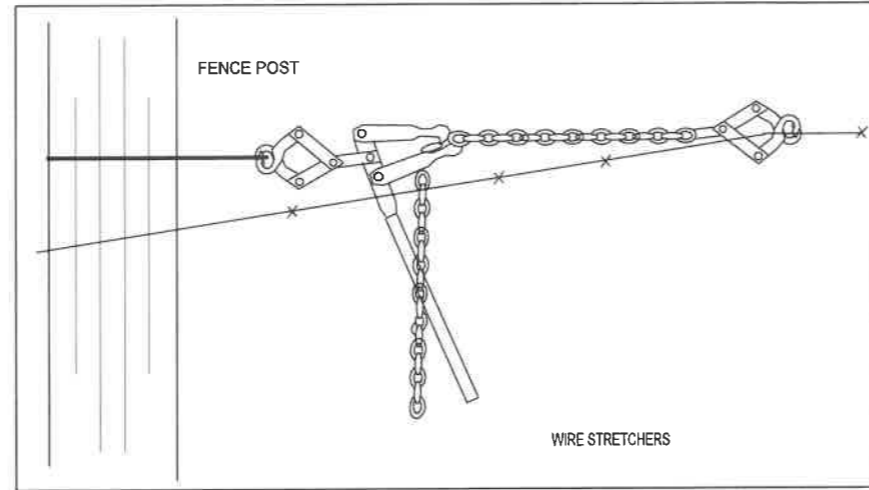
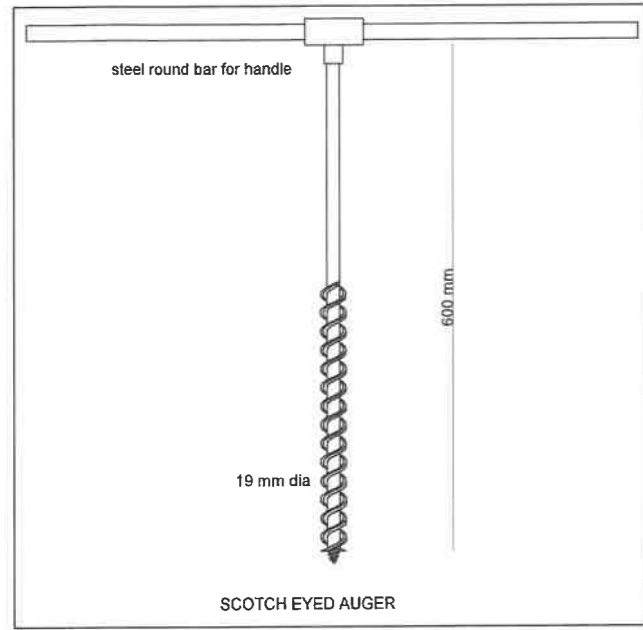


CLOSING OF OPENINGS

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10	4	0.2	2
15	4	0.3	2
20	4	0.5	2
25	6	0.6	3
30	6	0.8	3
>30	SPECIAL DESIGN BY THE ENGINEER		

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- WEAK LINK IN CABLE MAY BE POSITIONED EITHER AT END STANDARDS OR IN CENTRE OF CABLE AS SHOWN. FORM BY LOOPING A STRAINING WIRE THROUGH WIRE HANGERS. NUMBER OF LOOPS ARE TABULATED IN CONSTRUCTION TABLE.
 - WHEN HEIGHT OF CABLE IS LESS THAN 2,0m, WIRE HANGERS MAY BE OMITTED AND NETTING LAPPED HORIZONTALLY.
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NO.	SPECIAL NOTES:

JPJ KOCH
(CHIEF ENGINEER)

APRIL 2022
(DATE APPROVED)

**DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM
PROVINCE OF THE EASTERN CAPE**

ENGINEERING SERVICES
PRIVATE BAG X015
DOHNE ADI
STUTTERHEIM
4930

STANDARD STOCK PROOF FENCE

1,4m HIGH - 9 STRAND FENCE

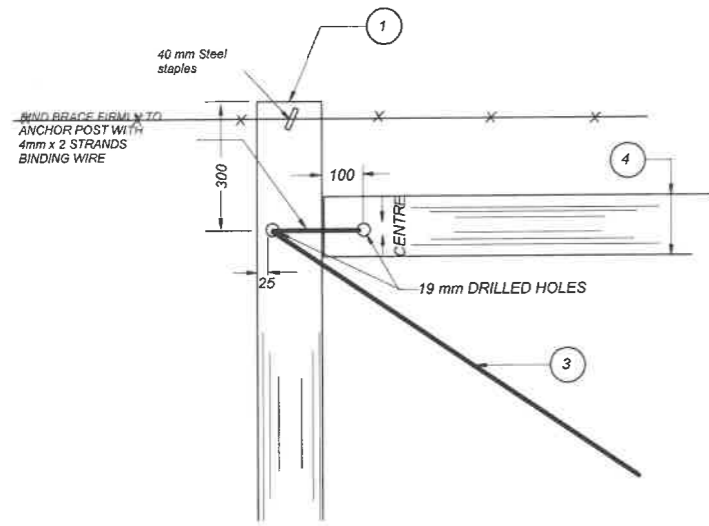
SCALE
NTS

A3 ORIGINAL

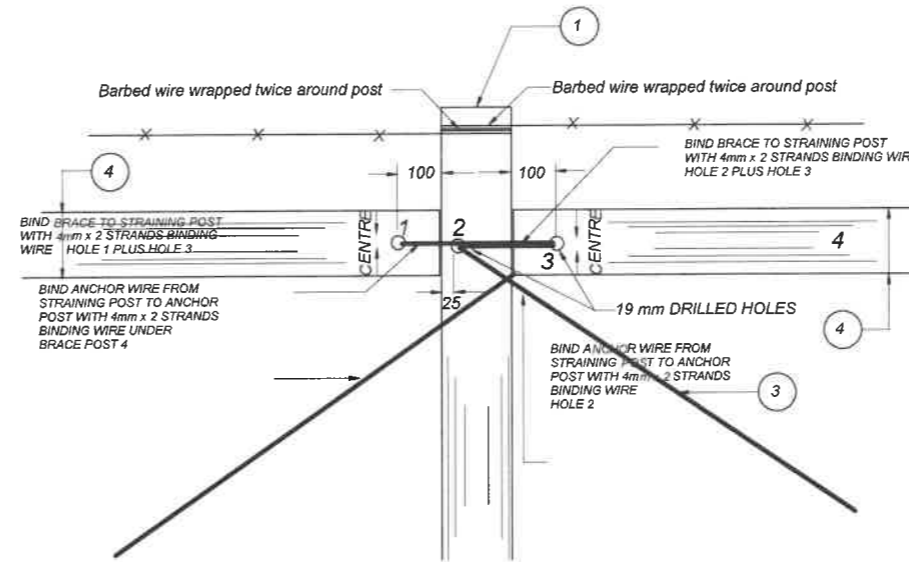
INDEX NO.
SCMM-02/19/06

PLAN NO.
SHEET 6 OF 6

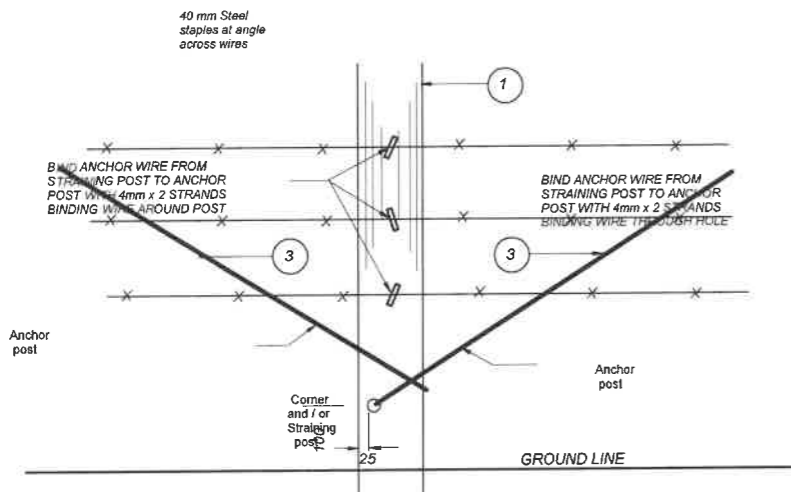
19.3 STANDARD VERMIN PROOF FENCE (1,2m)



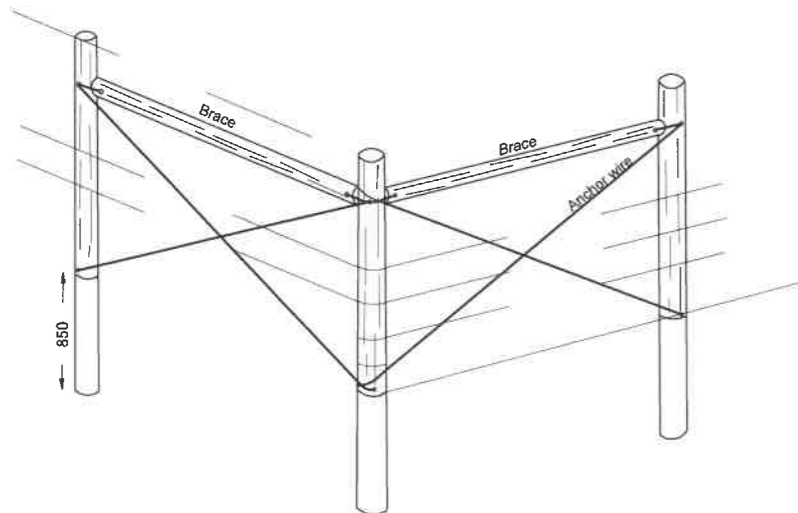
DETAIL A



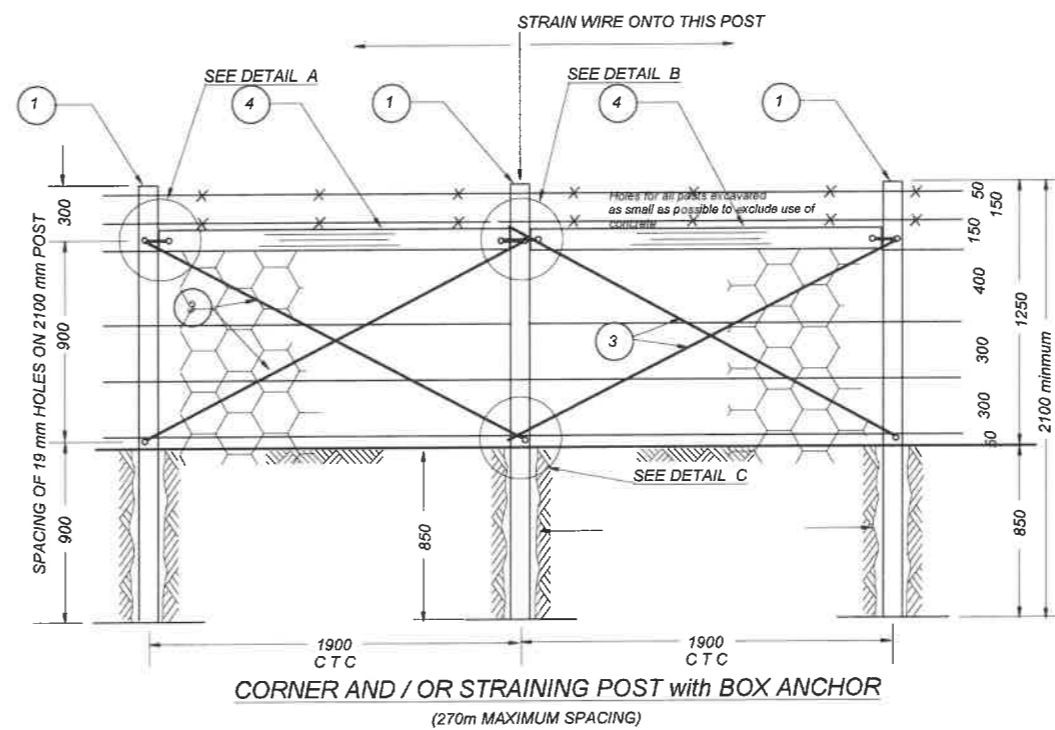
DETAIL B



DETAIL C



CORNER WITH BOX ANCHOR



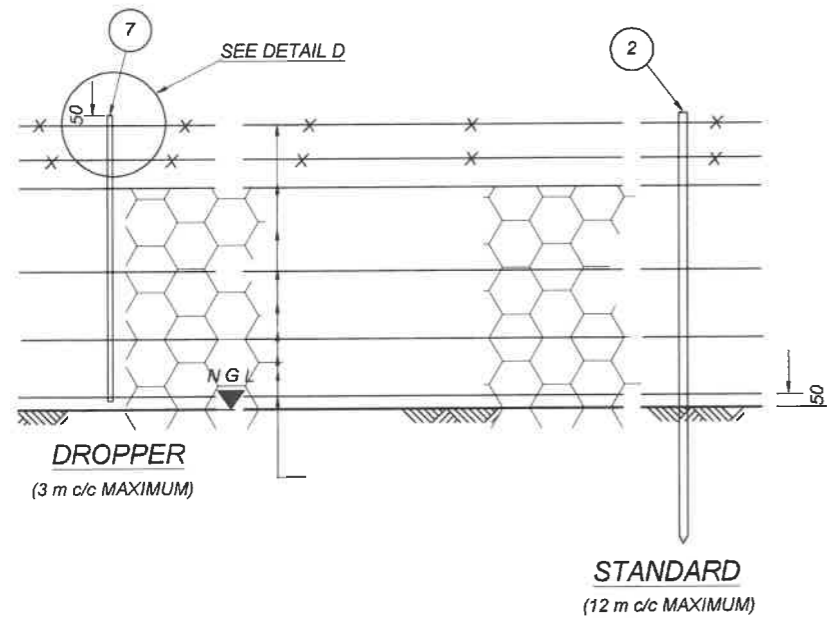
**CORNER AND / OR STRAINING POST WITH BOX ANCHOR
(270m MAXIMUM SPACING)**

LEGEND

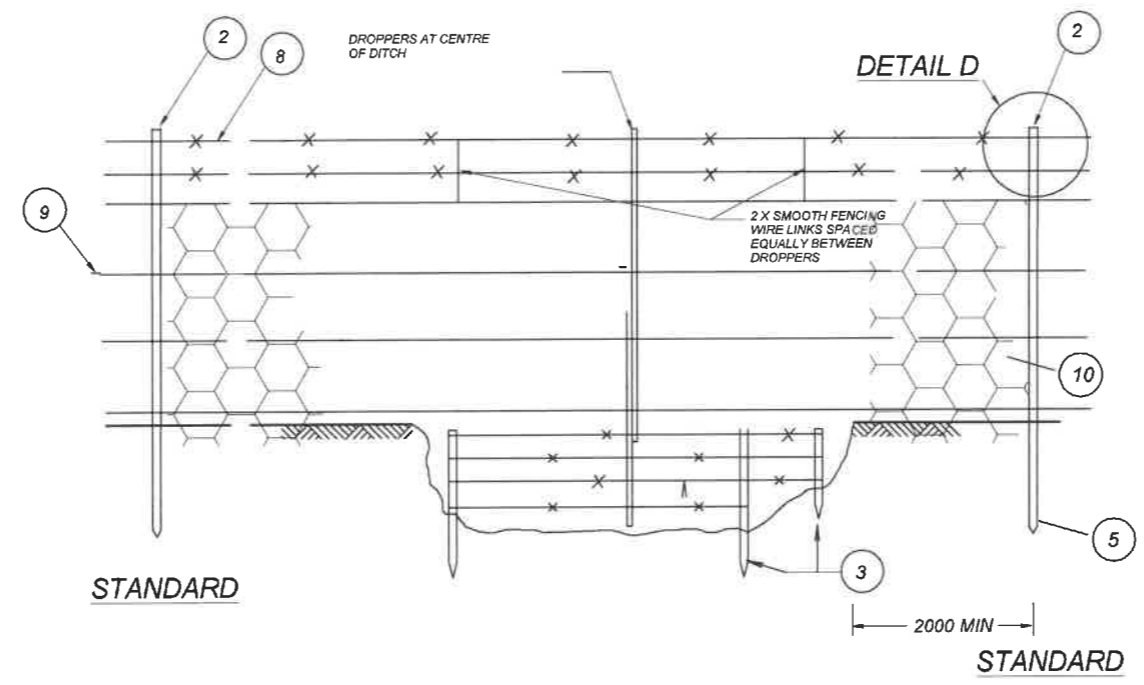
- 1 125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST CORNER, STRAINING AND ANCHOR POSTS
- 3 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- 4 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST BRACES IN BOX ANCHORS

NOTES:
 1. 40 mm STAPLES REQUIRED FOR CORNER POSTS and STRAINING POSTS
 2. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES
 NGL NATURAL GROUND LEVEL

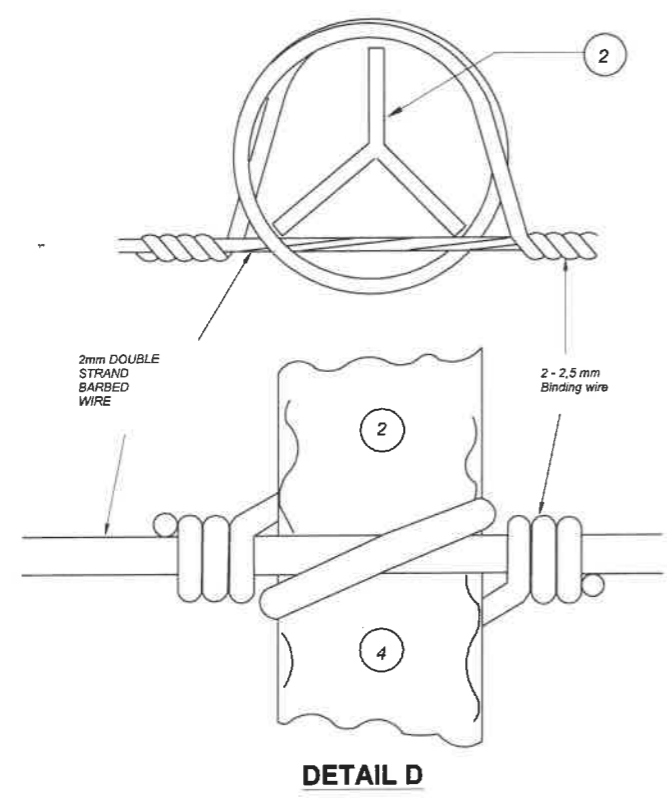
NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD VERMIN PROOF FENCE	SCALE	INDEX NO.
					NTS	SCMM-02/19/01
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	1,2m HIGH - VERMIN PROOF FENCE	A3 ORIGINAL	PLAN NO. SHEET 1 OF 5



STOCK PROOF FENCE



CROSSING CANALS AND TRENCHES



DETAIL D

LEGEND

- 1 — 125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST
CORNER, STRAINING AND ANCHOR POSTS
- 2 — 2,0 kg/m x 1800 mm Y SECTION IRON STANDARD
- 3 — 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- 4 — 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST
BRACES IN BOX ANCHORS
- 5 — STANDARDS EMBEDDED IN CLASS 20/19 CONCRETE IF ORDERED BY THE ENGINEER
- 6 — STAKES (DROPPER PROFILE) OF SUITABLE LENGTH DRIVEN FIRMLY INTO SIDES &
BED OF TRENCH AT APPROVED SPACINGS. STAKES TO BE ALIGNED WITH & TIED TO
DROPPERS WITH WIRE WHERE REQUIRED.
- 7 — 0,56 kg/m x 1250 mm RIDGEBACK PATTERN IRON DROPPER
- 8 — Barbed wire, 2 x 2mm, galvanized, SABS approved
- 9 — High Tensile 2.24mm dia plain wire, galvanized, SABS approved.
- 10 — Netting wire, 1.8mm dia, 1200mm x 90mm hexagonal mesh

NGL NATURAL GROUND LEVEL

NOTES: 1. 40 mm STAPLES REQUIRED FOR CORNER POSTS and STRAINING POSTS
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR
SPECIFICATIONS FOR FENCES

NO.	SPECIAL NOTES:

JPJ KOCH
(CHIEF ENGINEER)

APRIL 2022
(DATE APPROVED)

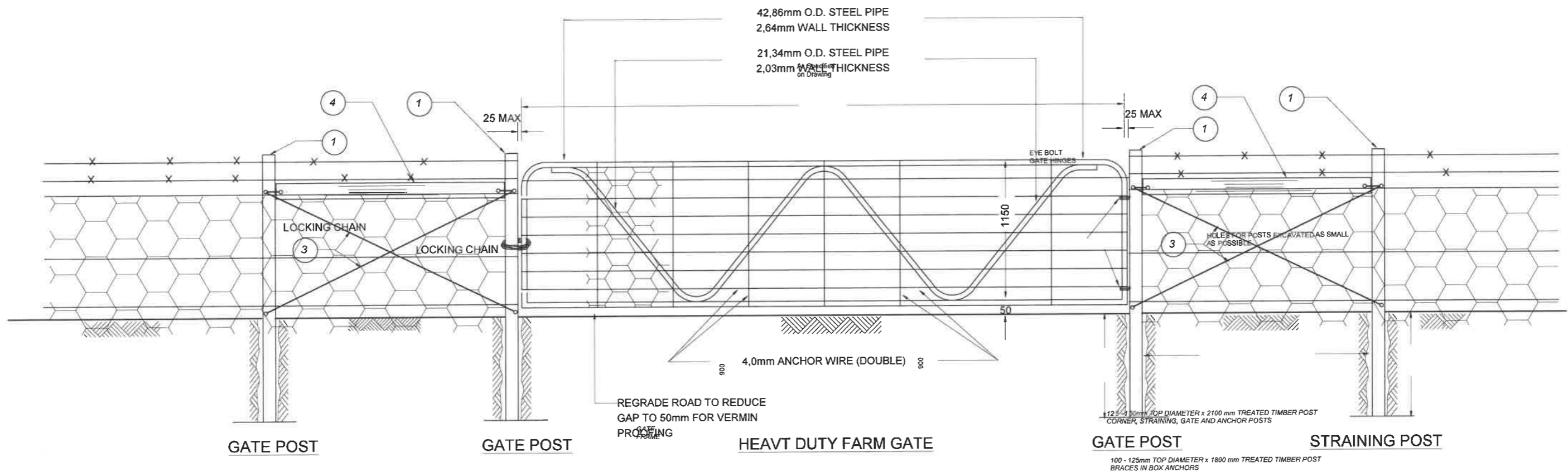
**DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM
PROVINCE OF THE EASTERN CAPE**

ENGINEERING SERVICES
PRIVATE BAG X015
DOHNE ADI
STUTTERHEIM
4930

STANDARD VERMIN PROOF FENCE

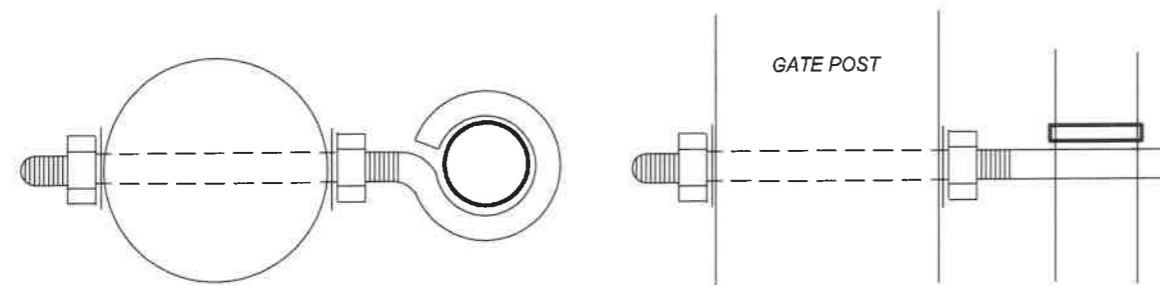
1,2m HIGH - VERMIN PROOF FENCE

SCALE NTS	INDEX NO. SCMM-02/19/02
A3 ORIGINAL	PLAN NO. SHEET 2 OF 5



FARM GATES

2. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES



GATE HINGE EYE BOLT

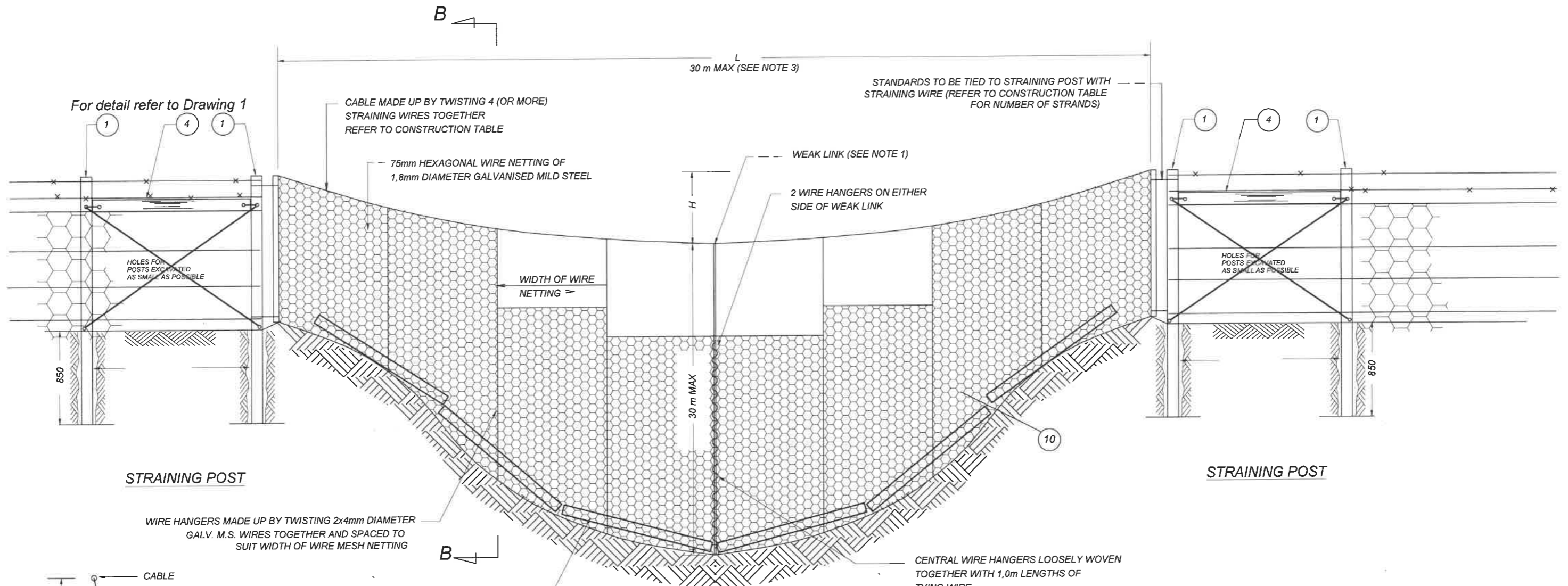
LEGEND

- ① 125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST
CORNER, STRAINING AND ANCHOR POSTS
- ③ 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- ④ 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST
BRACES IN BOX ANCHORS

NGL NATURAL GROUND LEVEL

NOTES: 1. 40 mm STAPLES REQUIRED FOR CORNER POSTS and STRAINING POSTS

NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD VERMIN PROOF FENCE	SCALE	INDEX NO.
				1,2m HIGH - VERMIN PROOF FENCE	NTS	SCMM-02/19/03
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930		A3 ORIGINAL	PLAN NO. SHEET 3 OF 5

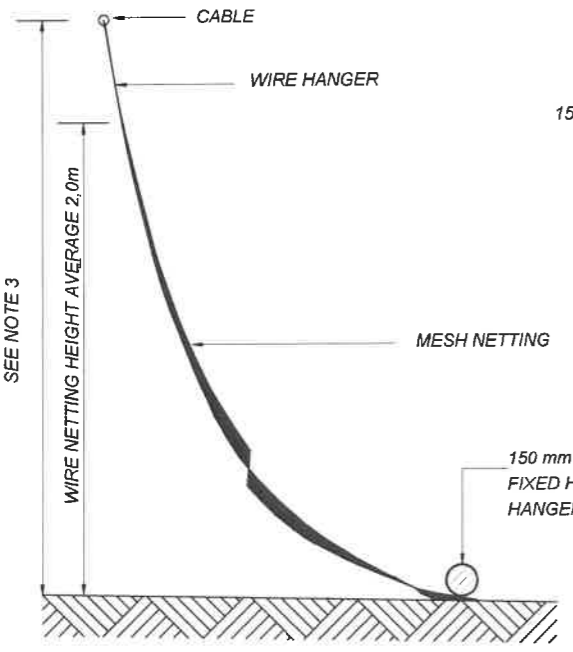


ELEVATION

CLOSING OF OPENINGS

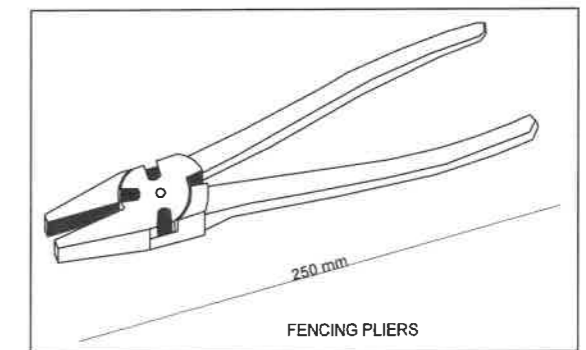
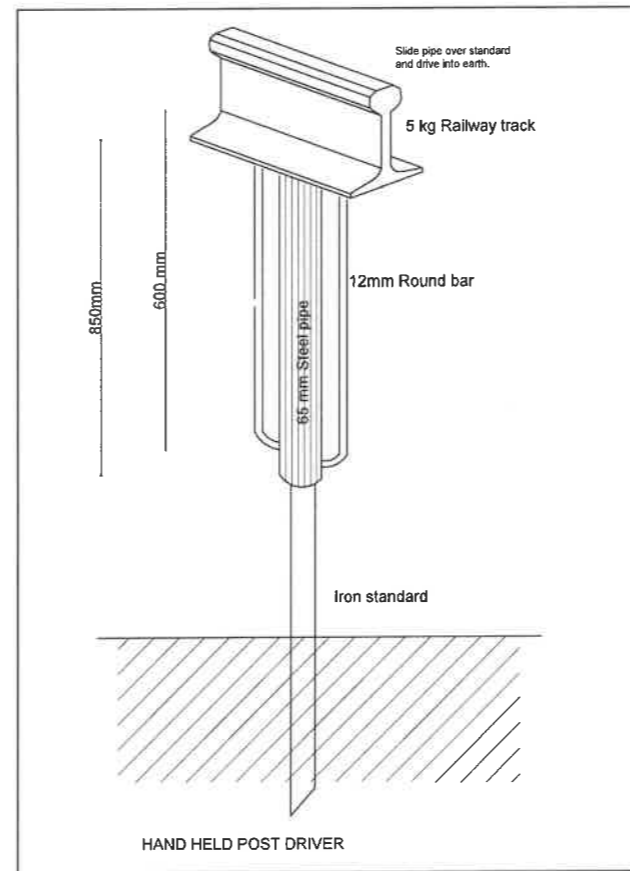
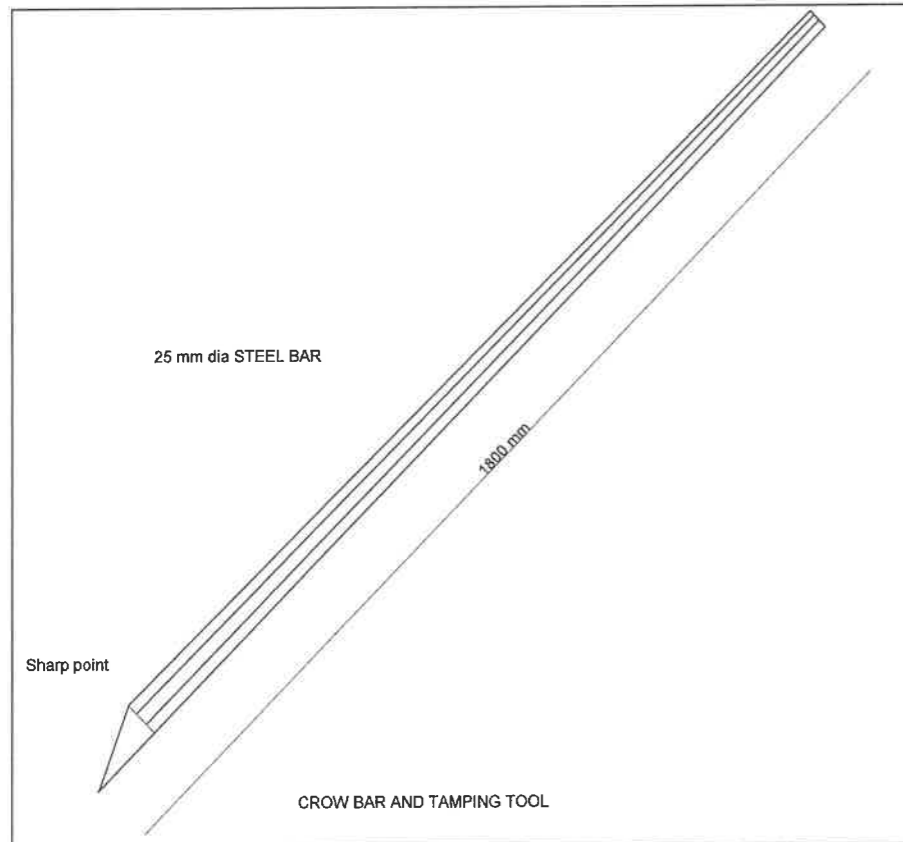
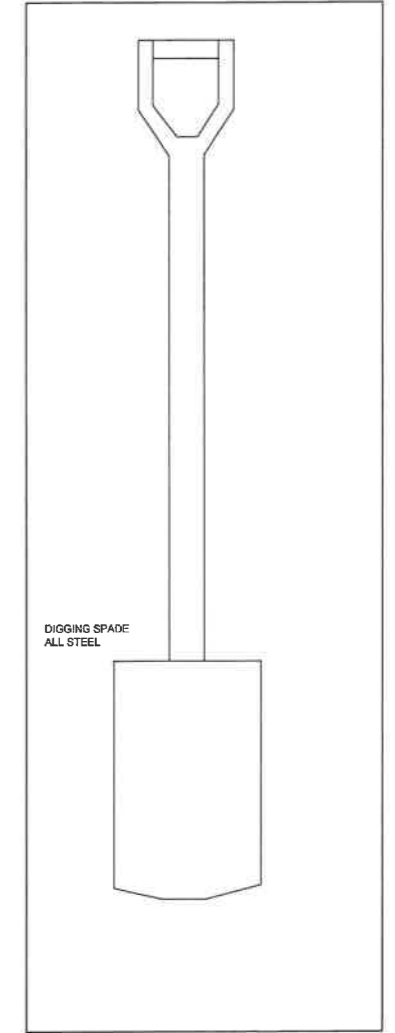
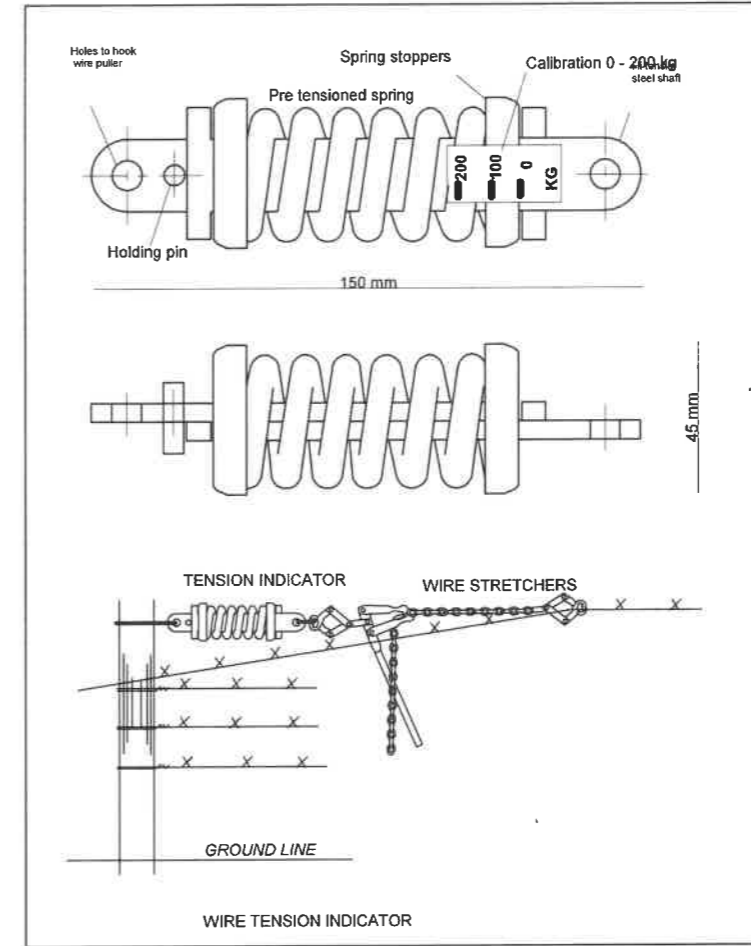
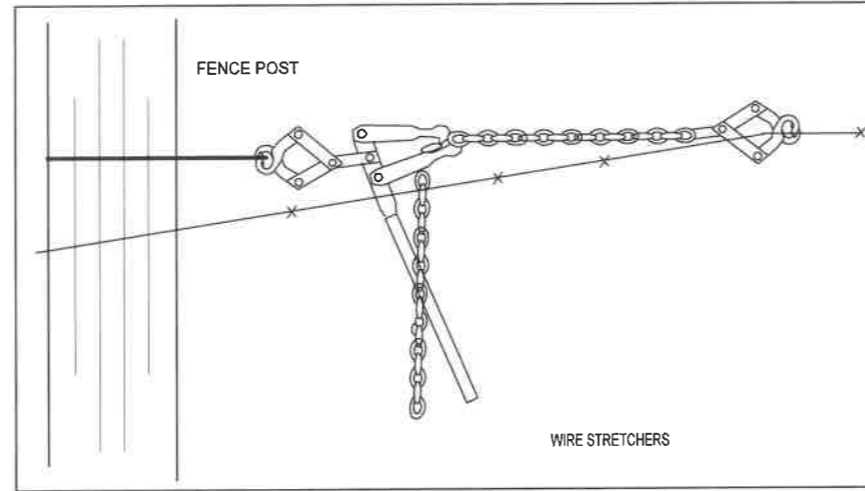
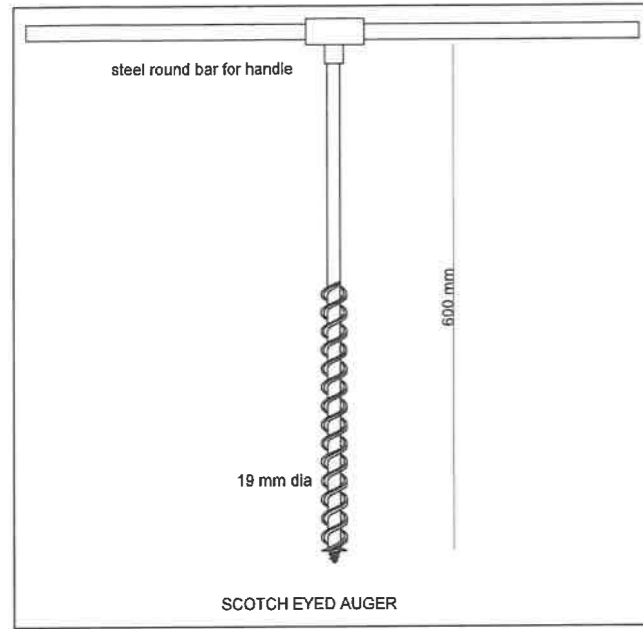
CONSTRUCTION TABLE			
SPAN L (m)	No OF STRAINING WIRES	H (m)	No OF LOOPS IN WEAK LINK
10	4	0.2	2
15	4	0.3	2
20	4	0.5	2
25	6	0.6	3
30	6	0.8	3
>30	SPECIAL DESIGN BY THE ENGINEER		

- NOTES :**
- WEAK LINK IN CABLE MAY BE POSITIONED EITHER AT END STANDARDS OR IN CENTRE OF CABLE AS SHOWN. FORM BY LOOPING A STRAINING WIRE THROUGH WIRE HANGERS. NUMBER OF LOOPS ARE TABULATED IN CONSTRUCTION TABLE.
 - WHEN HEIGHT OF CABLE IS LESS THAN 2.0m, WIRE HANGERS MAY BE OMITTED AND NETTING LAPPED HORIZONTALLY.
 - IF LENGTH OF WIRE NETTING EXCEEDS 30m FENCING TO BE DESIGNED BY THE ENGINEER.
- 10 — Netting wire, 1.8mm dia, 1200mm x 90mm hexagonal mesh



SECTION B-B

NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD VERMIN PROOF FENCE	SCALE	INDEX NO.
					NTS	SCMM-02/19/04
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	1,2m HIGH - VERMIN PROOF FENCE	A3 ORIGINAL	PLAN NO. SHEET 4 OF 5



NO.	SPECIAL NOTES:

JPJ KOCH
(CHIEF ENGINEER)

APRIL 2022
(DATE APPROVED)

**DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM
PROVINCE OF THE EASTERN CAPE**

ENGINEERING SERVICES
PRIVATE BAG X015
DOHNE ADI
STUTTERHEIM
4930

STANDARD VERMIN PROOF FENCE

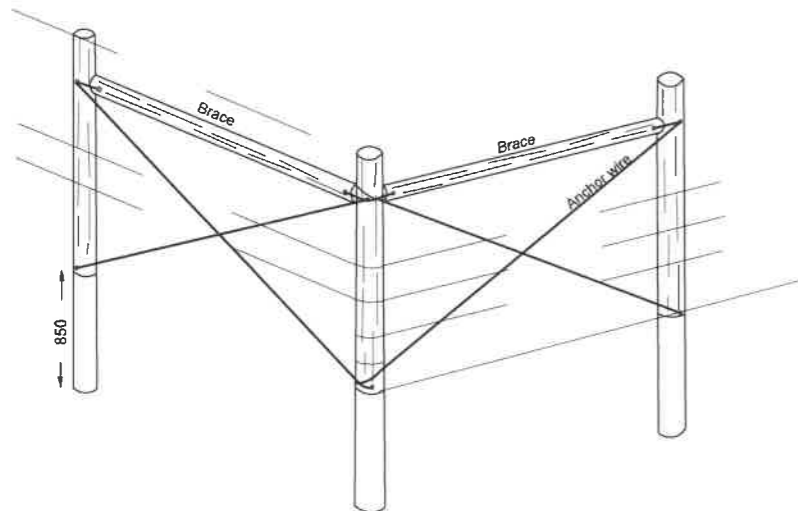
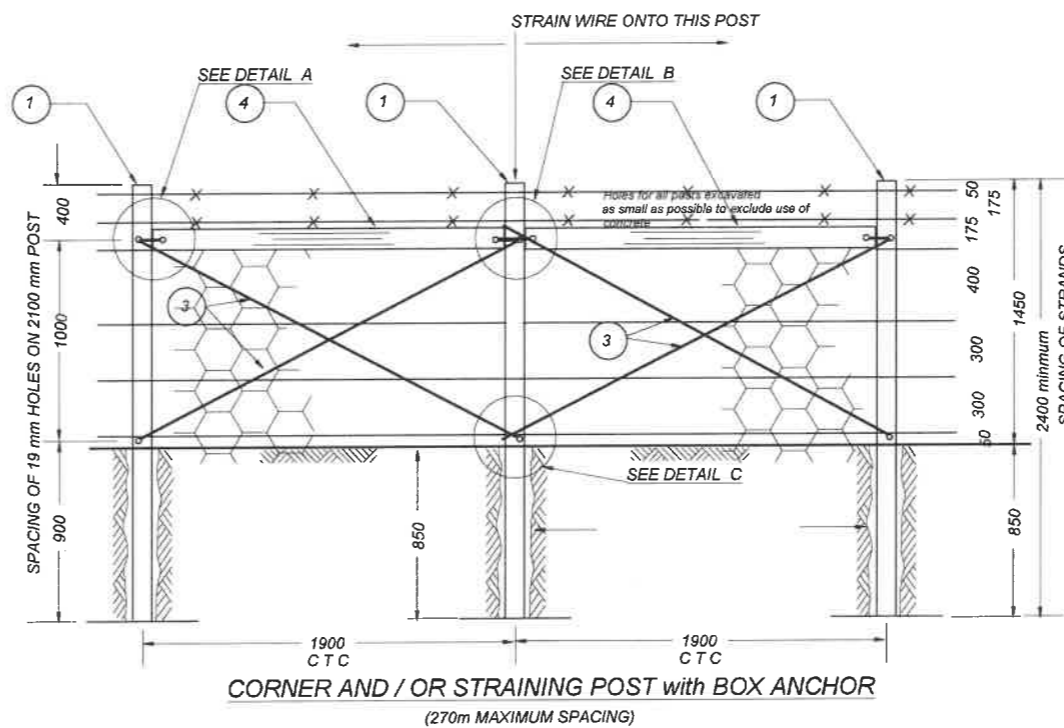
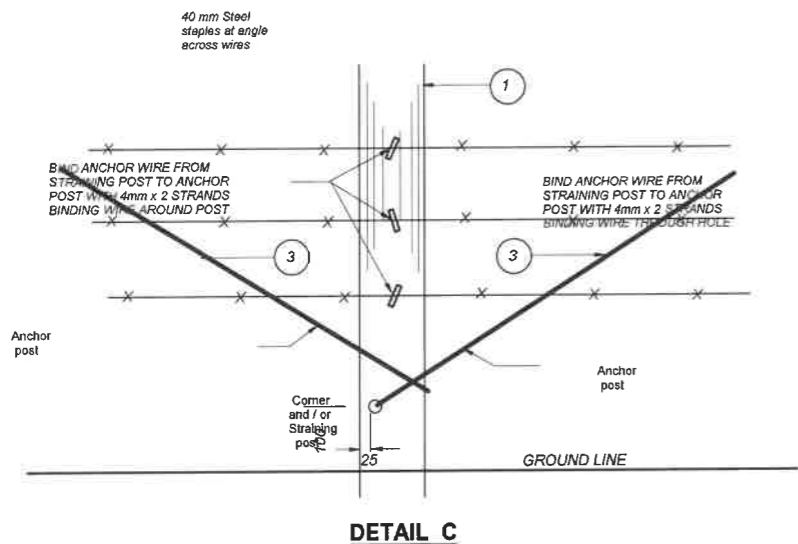
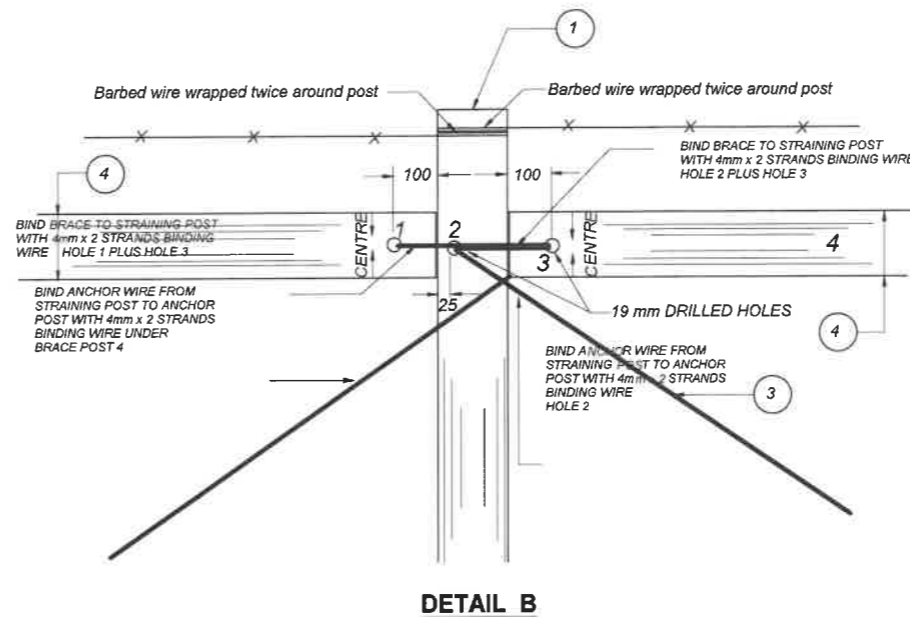
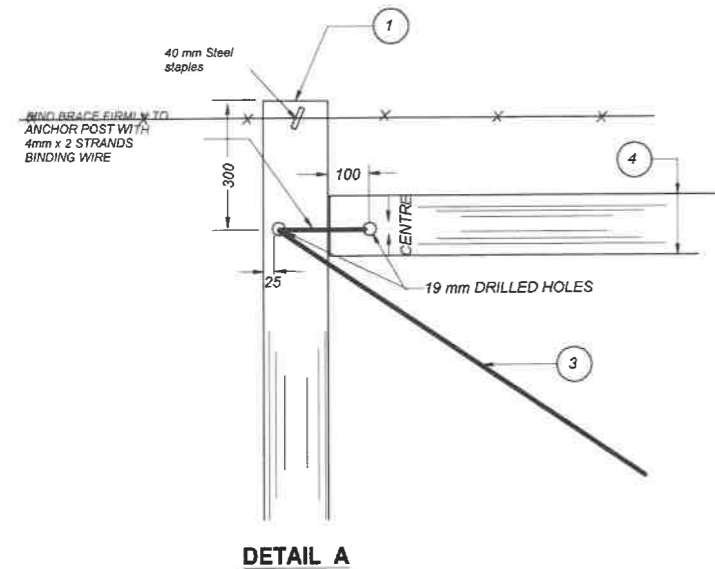
1,2m HIGH - VERMIN PROOF FENCE

SCALE
NTS

INDEX NO.
SCMM-02/19/05

PLAN NO.
SHEET 5 OF 5

19.3 STANDARD VERMIN PROOF FENCE (1,4m)



LEGEND

1

125 - 150mm TOP DIAMETER x 2400 mm TREATED TIMBER POST
CORNER, STRAINING AND ANCHOR POSTS

3

4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE

4

100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST
BRACES IN BOX ANCHORS

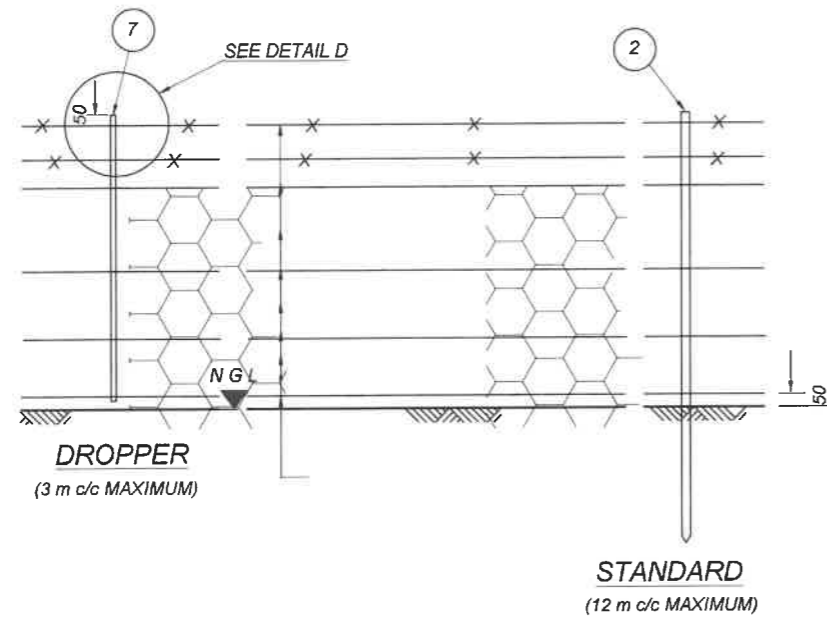
NOTES:

1. 40 mm STAPLES REQUIRED FOR CORNER POSTS
and STRAINING POSTS

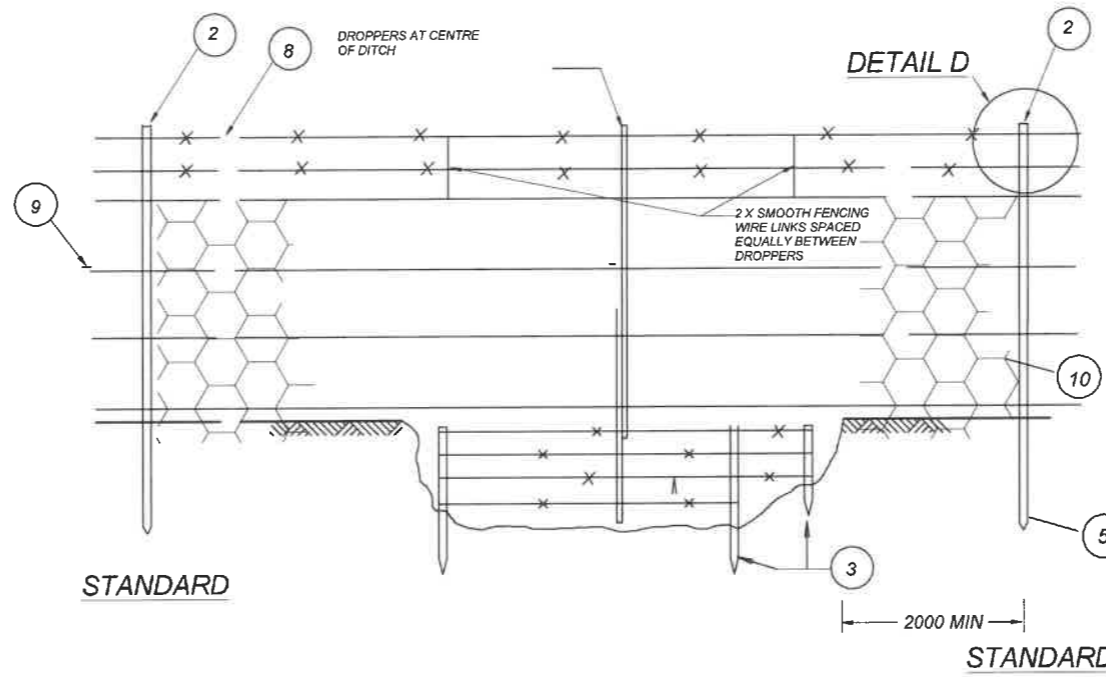
2. THIS DRAWING TO BE READ IN CONJUNCTION
WITH THE PROJECT PARTICULAR SPECIFICATIONS
FOR FENCES

NGL NATURAL GROUND LEVEL

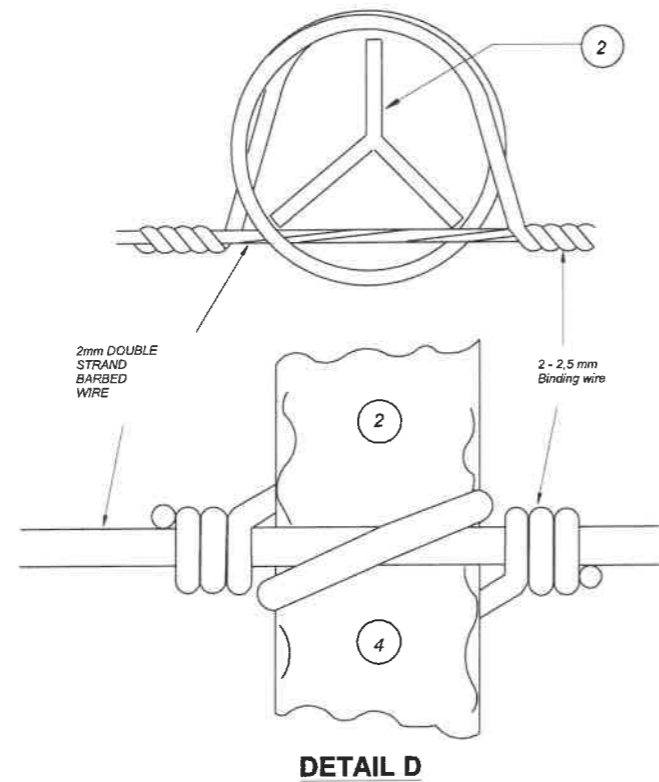
NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD VERMIN PROOF FENCE	SCALE NTS	INDEX NO. SCMM-02/19/01
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	1,4m HIGH - VERMIN PROOF FENCE	A3 ORIGINAL	PLAN NO. SHEET 1 OF 5



STOCK PROOF FENCE



CROSSING CANALS AND TRENCHES



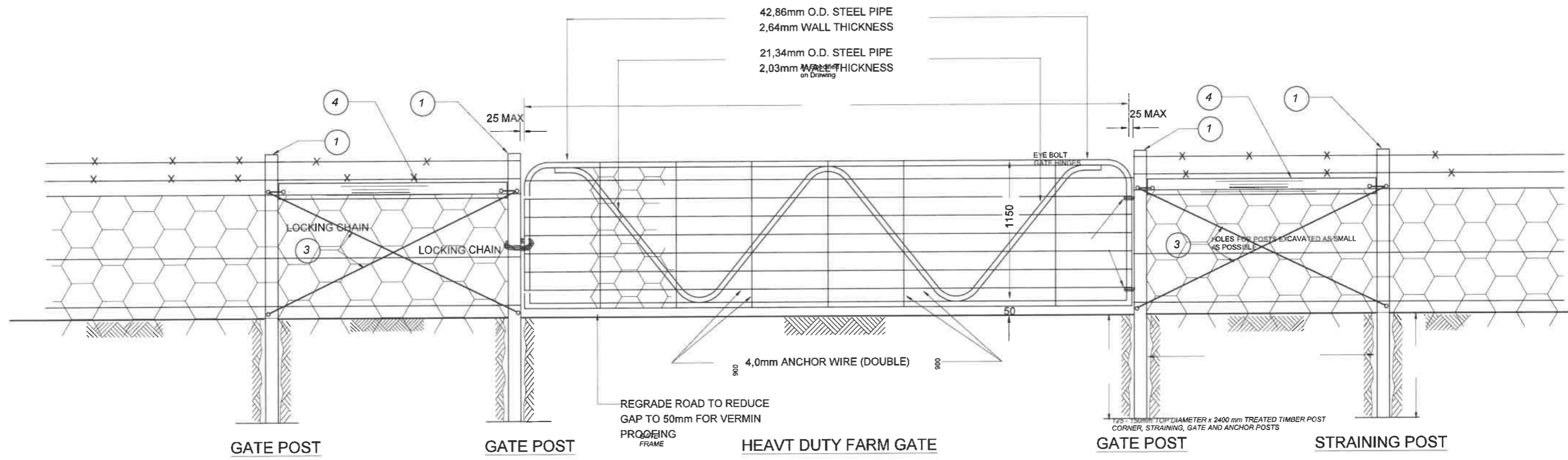
LEGEND

- 1 — 125 - 150mm TOP DIAMETER x 2400 mm TREATED TIMBER POST CORNER, STRAINING AND ANCHOR POSTS
- 2 — 2,0 kg/m x 1800 mm Y SECTION IRON STANDARD
- 3 — 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
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- 8 — Barbed wire, 2 x 2mm, galvanized, SABS approved
- 9 — High Tensile 2.24mm dia plain wire, galvanized, SABS approved.
- 10 — Netting wire, 1.8mm dia, 1200mm x 90mm hexagonal mesh

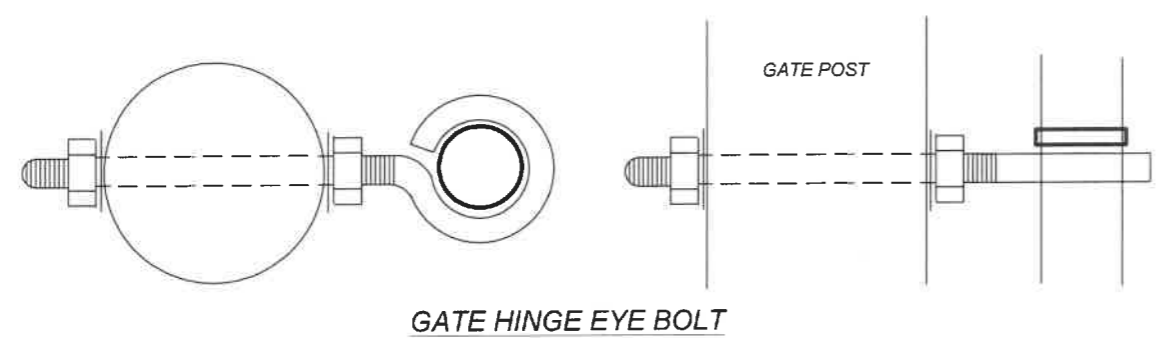
NGL NATURAL GROUND LEVEL

NOTES: 1. 40 mm STAPLES REQUIRED FOR CORNER POSTS and STRAINING POSTS
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD VERMIN PROOF FENCE	SCALE	INDEX NO.
				1,4m HIGH - VERMIN PROOF FENCE	NTS	SCMM-02/19/02
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930		A3 ORIGINAL	PLAN NO. SHEET 2 OF 5



FARM GATES



2. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

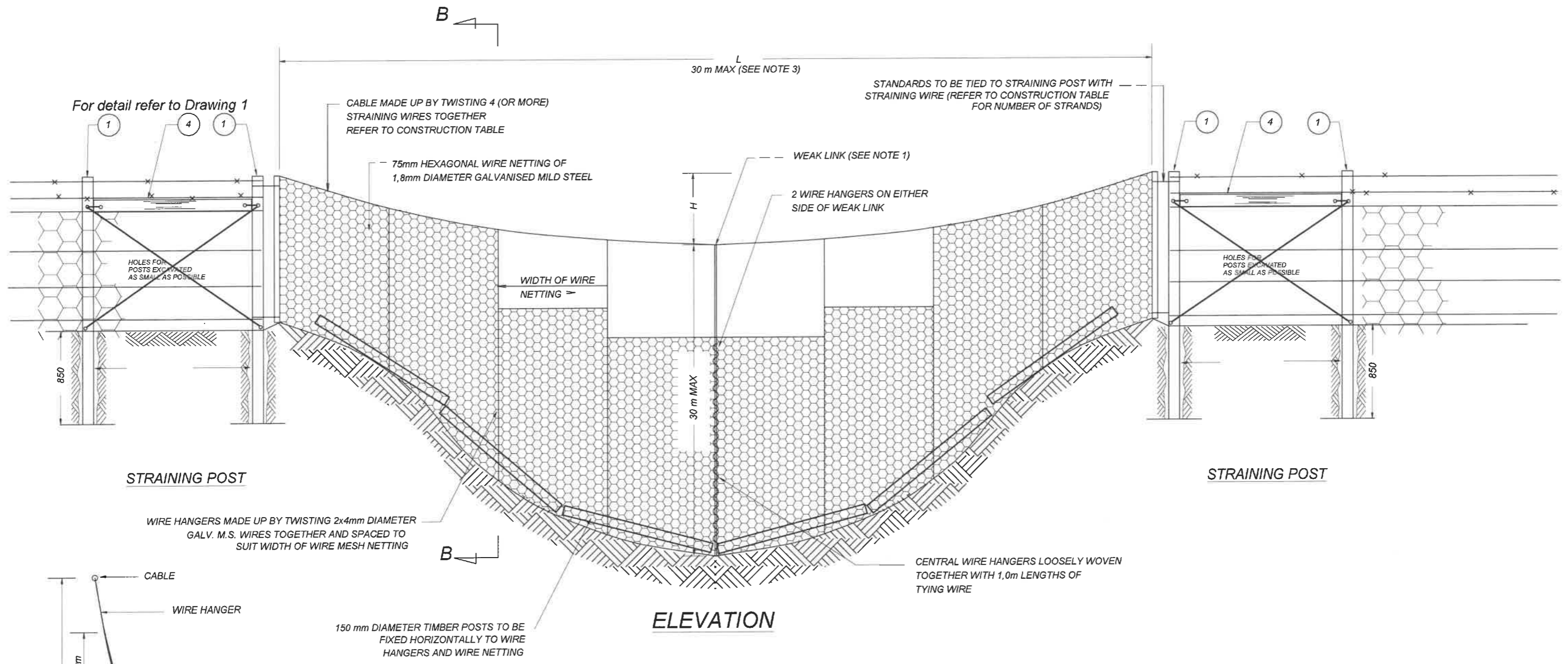
LEGEND

- 1 — 125 - 150mm TOP DIAMETER x 2400 mm TREATED TIMBER POST
CORNER, STRAINING AND ANCHOR POSTS
- 3 — 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- 4 — 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST
BRACES IN BOX ANCHORS

NGL NATURAL GROUND LEVEL

NOTES: 1. 40 mm STAPLES REQUIRED FOR CORNER POSTS and STRAINING POSTS

NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER) APRIL 2022 (DATE APPROVED)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	STANDARD VERMIN PROOF FENCE 1,4m HIGH - VERMIN PROOF FENCE	SCALE NTS A3 ORIGINAL	INDEX NO. SCMM-02/19/03 PLAN NO. SHEET 3 OF 5
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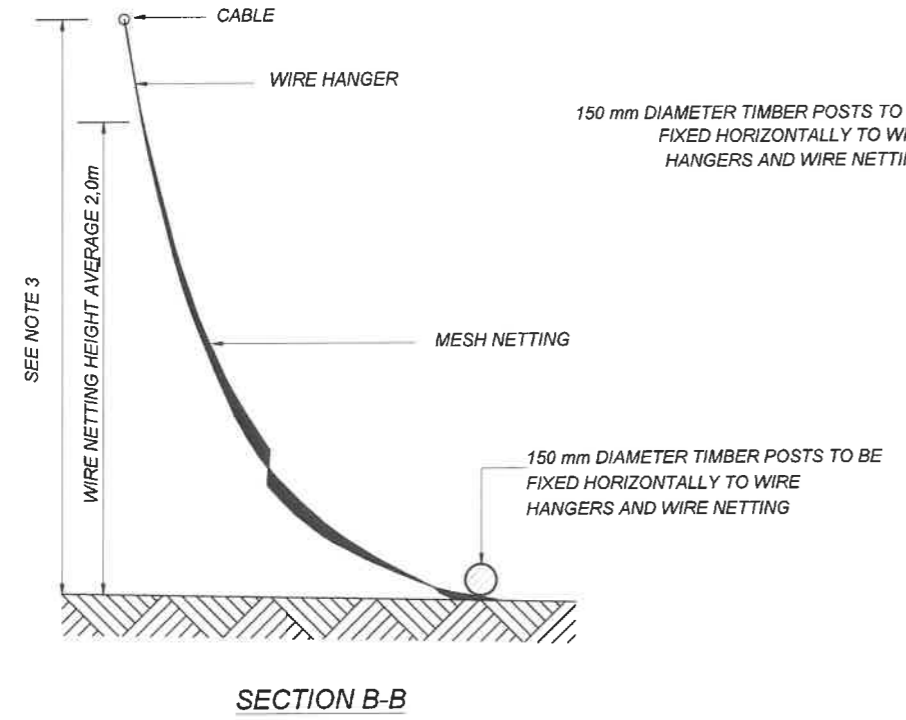


ELEVATION

CLOSING OF OPENINGS

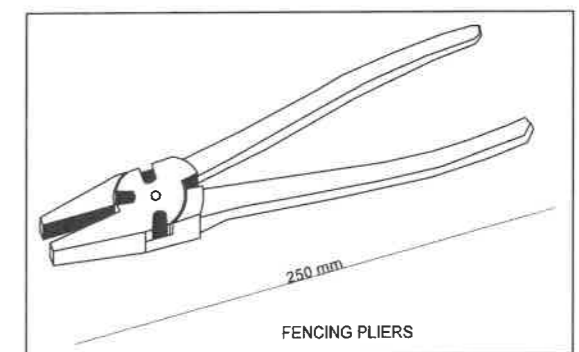
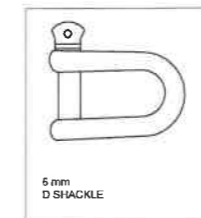
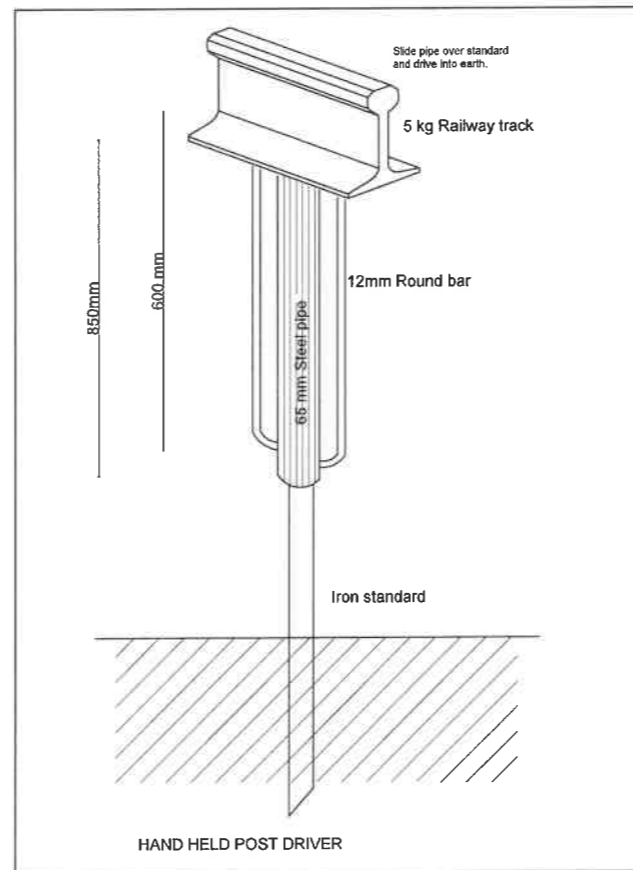
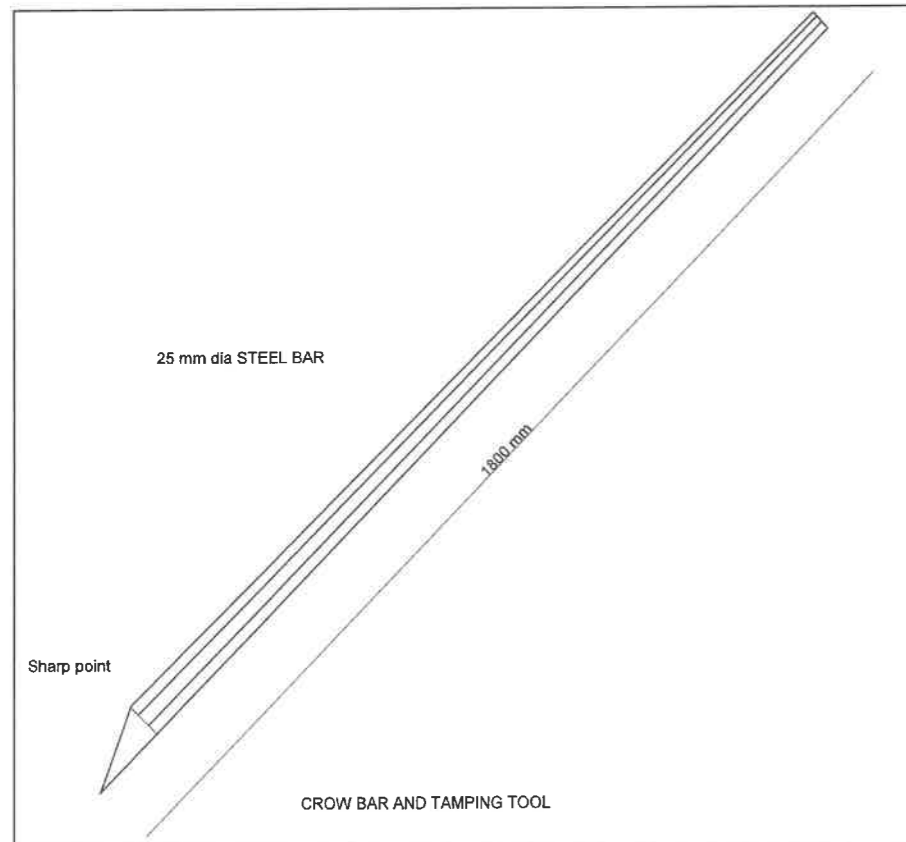
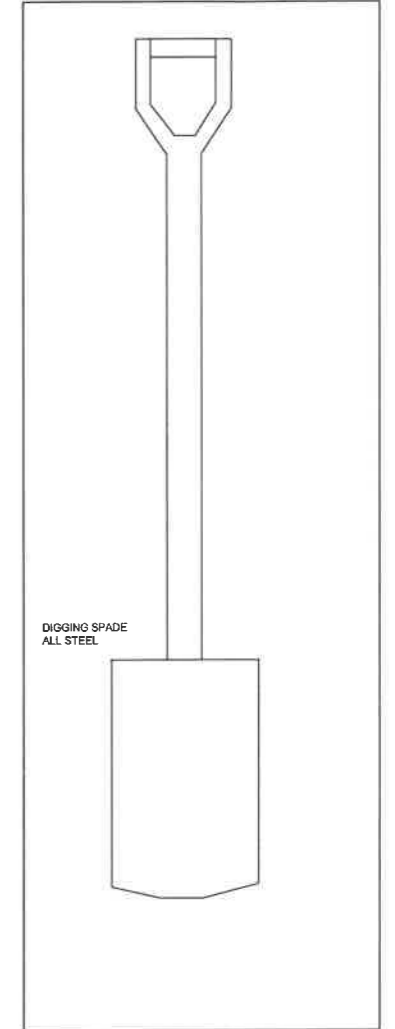
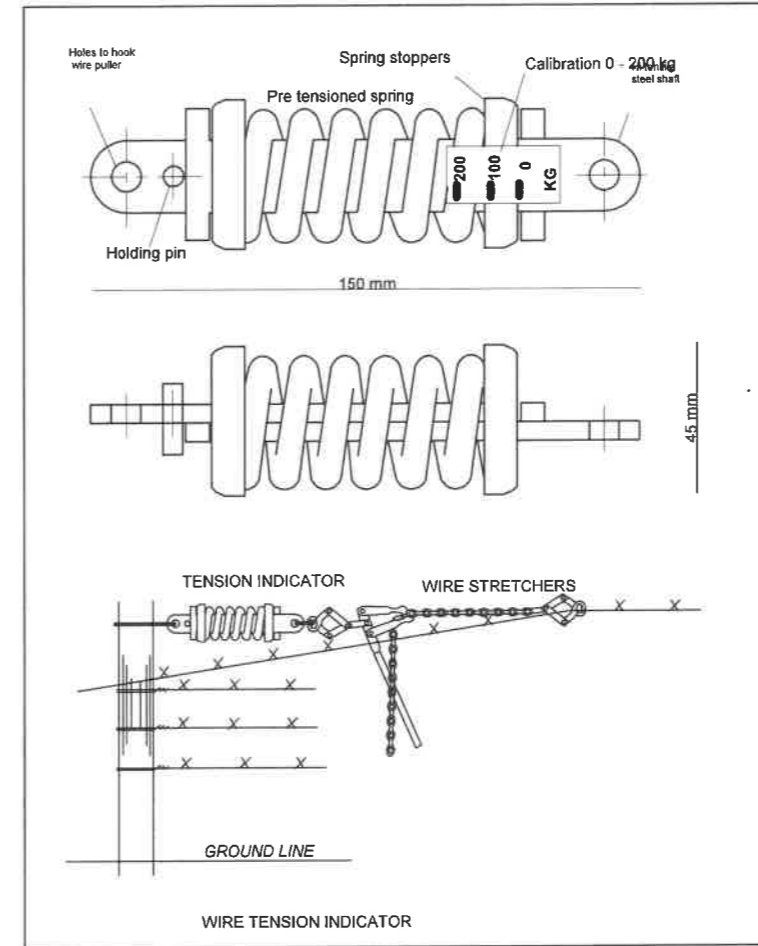
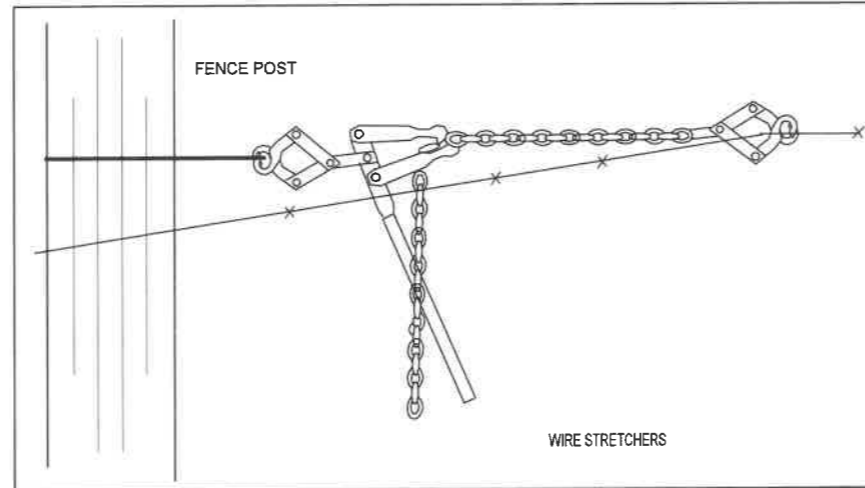
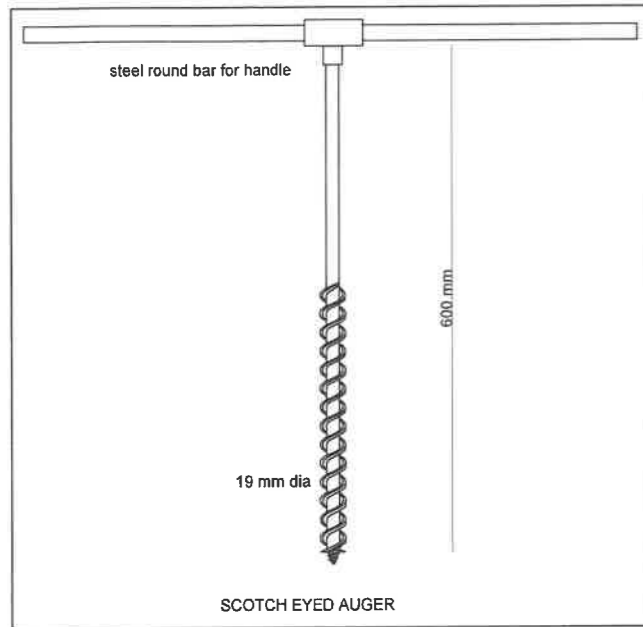
CONSTRUCTION TABLE			
SPAN L (m)	No OF STRAINING WIRES	H (m)	No OF LOOPS IN WEAK LINK
10	4	0.2	2
15	4	0.3	2
20	4	0.5	2
25	6	0.6	3
30	6	0.8	3
>30	SPECIAL DESIGN BY THE ENGINEER		

- NOTES :**
1. WEAK LINK IN CABLE MAY BE POSITIONED EITHER AT END STANDARDS OR IN CENTRE OF CABLE AS SHOWN. FORM BY LOOPING A STRAINING WIRE THROUGH WIRE HANGERS. NUMBER OF LOOPS ARE TABULATED IN CONSTRUCTION TABLE.
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 3. IF LENGTH OF WIRE NETTING EXCEEDS 30m FENCING TO BE DESIGNED BY THE ENGINEER.



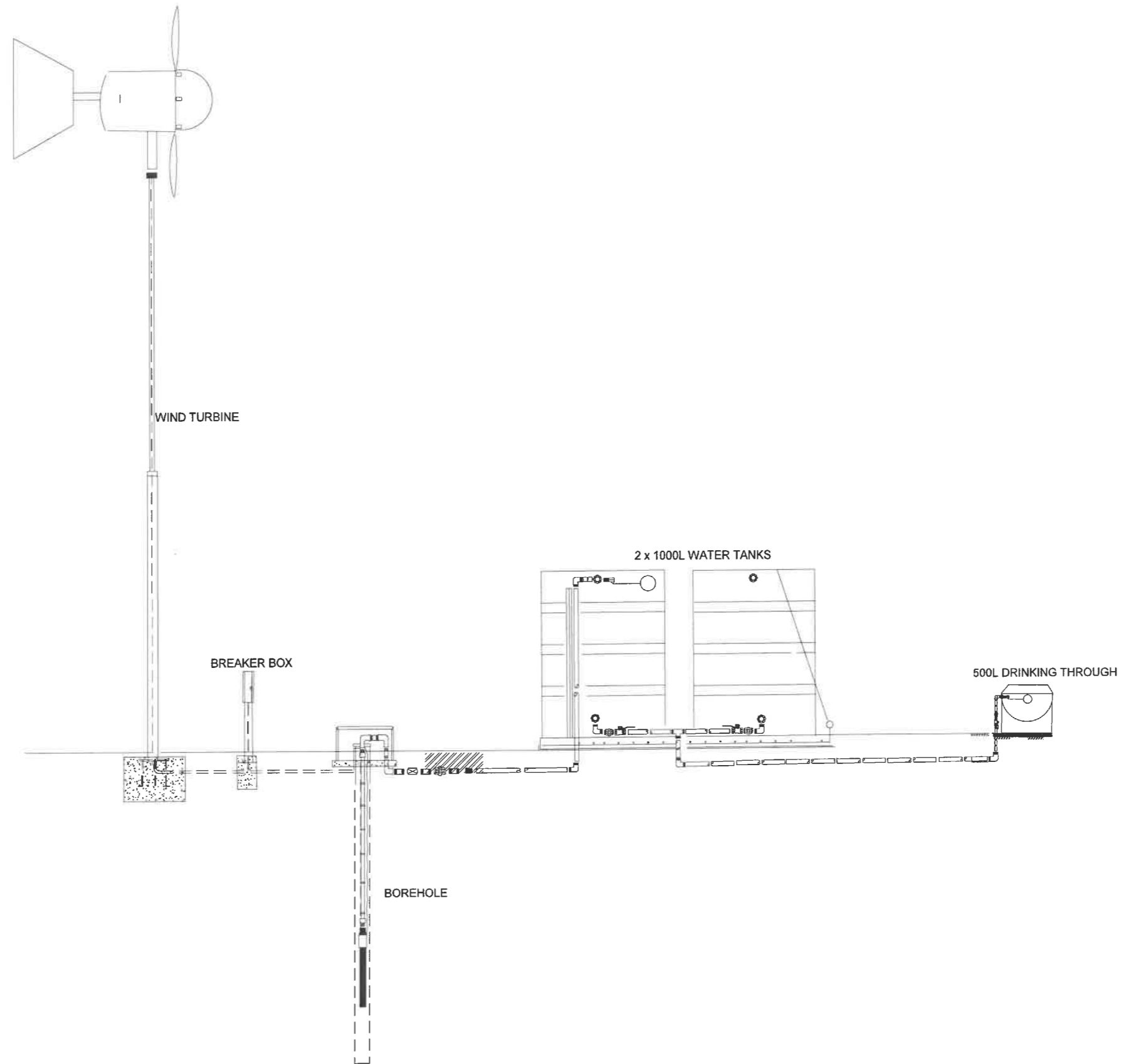
SECTION B-B

NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	STANDARD VERMIN PROOF FENCE	SCALE	INDEX NO.
						NTS	SCMM-02/19/04
						A3 ORIGINAL	PLAN NO.
						1,4m HIGH - VERMIN PROOF FENCE	SHEET 4 OF 5
						APRIL 2022 (DATE APPROVED)	

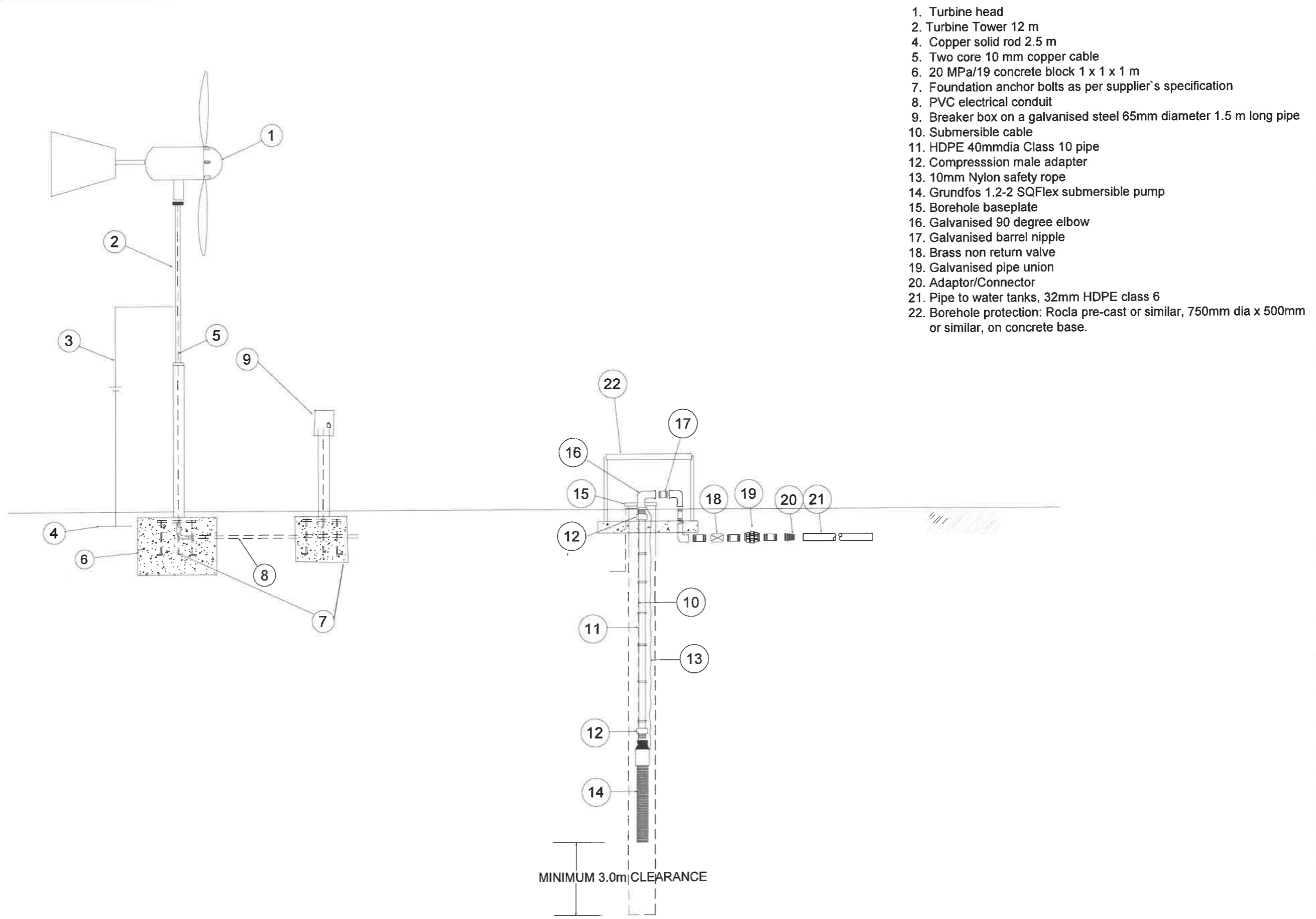


NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER) APRIL 2022 (DATE APPROVED)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	STANDARD VERMIN PROOF FENCE	SCALE	INDEX NO.		
					NTS	SCMM-02/19/05		
						1,4m HIGH - VERMIN PROOF FENCE	A3 ORIGINAL	PLAN NO.
								SHEET 5 OF 5

21 STANDARD STOCK WATER SYSTEM



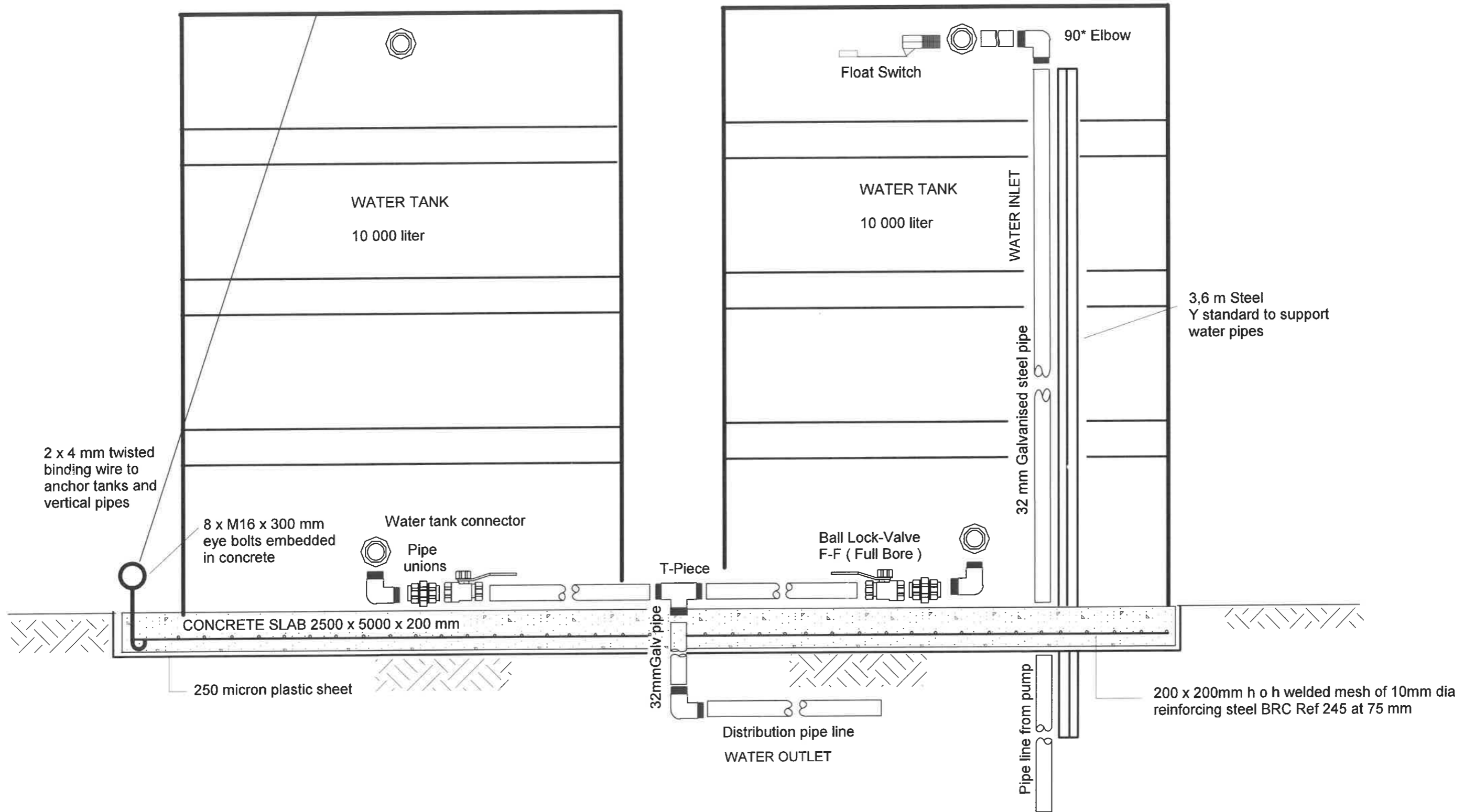
NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STOCK WATER SYSTEM	SCALE	INDEX NO.
					NTS	SCMM-02/21/01
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	SCHMATIC LAYOUT	A3 ORIGINAL	PLAN NO. SHEET 1 OF 5



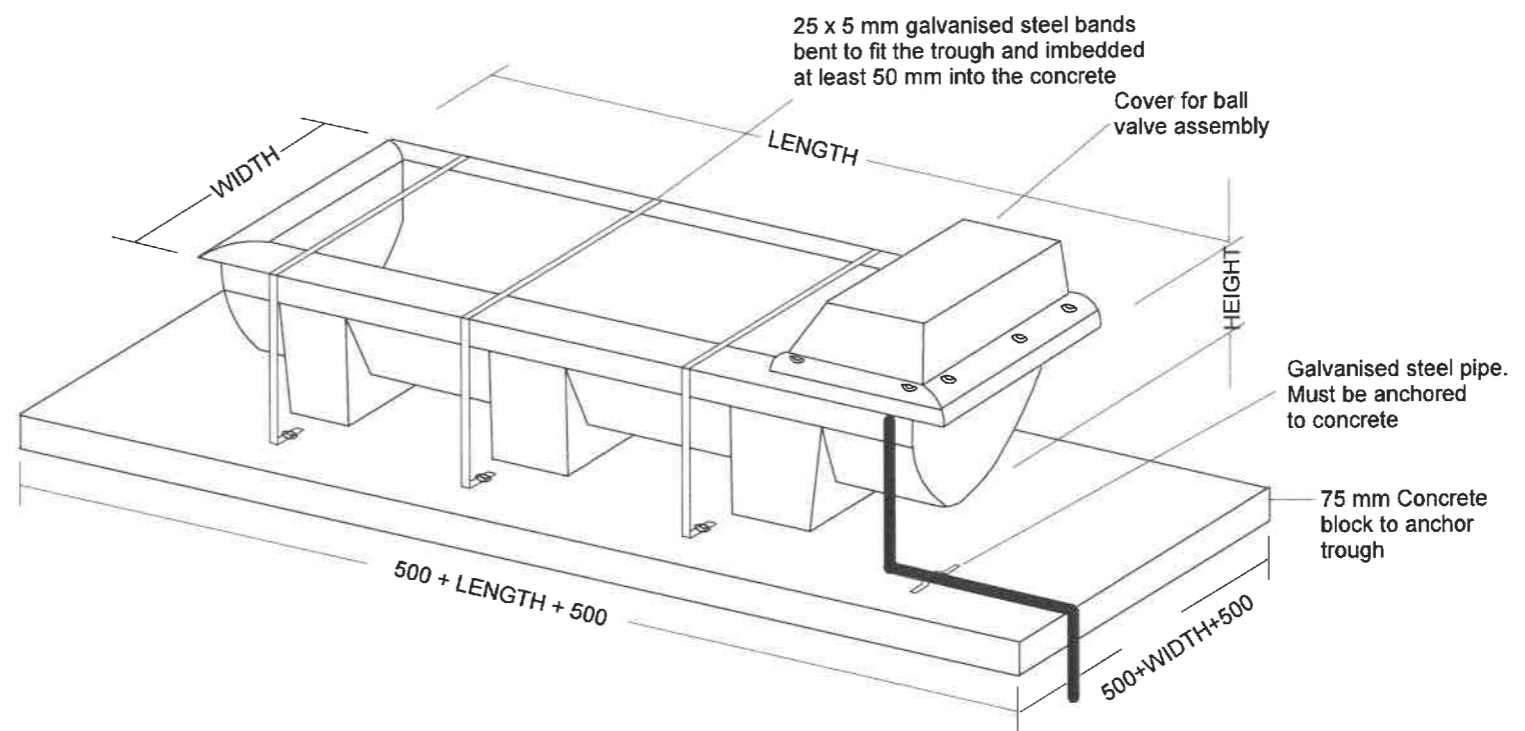
1. Turbine head
2. Turbine Tower 12 m
4. Copper solid rod 2.5 m
5. Two core 10 mm copper cable
6. 20 MPa/19 concrete block 1 x 1 x 1 m
7. Foundation anchor bolts as per supplier's specification
8. PVC electrical conduit
9. Breaker box on a galvanised steel 65mm diameter 1.5 m long pipe
10. Submersible cable
11. HDPE 40mmdia Class 10 pipe
12. Compression male adapter
13. 10mm Nylon safety rope
14. Grundfos 1.2-2 SQFlex submersible pump
15. Borehole baseplate
16. Galvanised 90 degree elbow
17. Galvanised barrel nipple
18. Brass non return valve
19. Galvanised pipe union
20. Adaptor/Connector
21. Pipe to water tanks, 32mm HDPE class 6
22. Borehole protection: Rocla pre-cast or similar, 750mm dia x 500mm or similar, on concrete base.

NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER) APRIL 2022 (DATE APPROVED)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	STOCK WATER SYSTEM		SCALE	INDEX NO.		
						NTS	SCMM-02/21/02		
						WINDTURBINE & BOREHOLE		A3 ORIGINAL	PLAN NO.
								SHEET 2 OF 5	

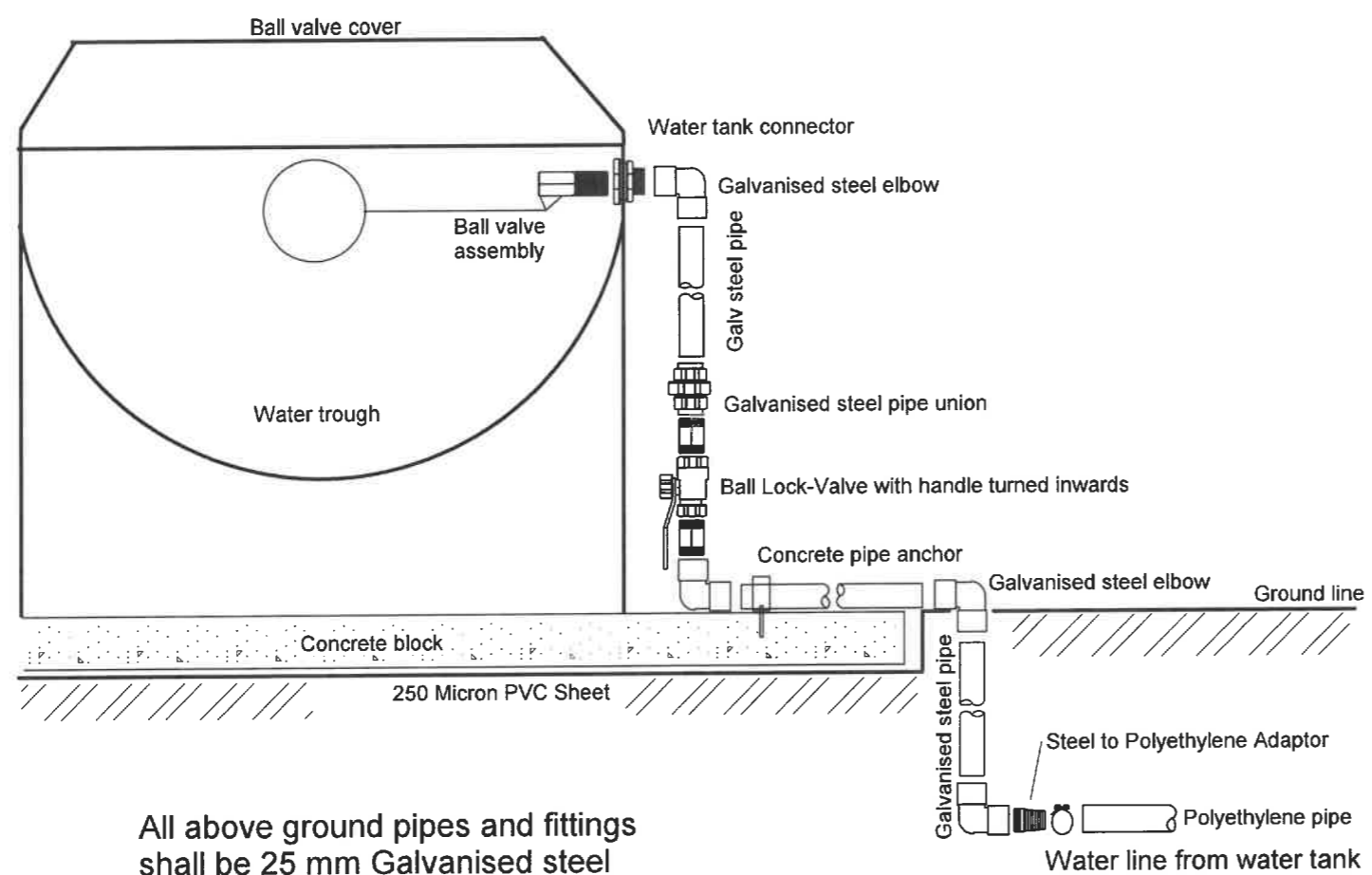
TWO WATER TANKS INLET AND OUTLET CONNECTIONS



NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STOCK WATER SYSTEM	SCALE NTS	INDEX NO. SCMM-02/21/03
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	WATER TANKS INLET AND OUTLET CONNECTIONS	A3 ORIGINAL	PLAN NO. SHEET 3 OF 5



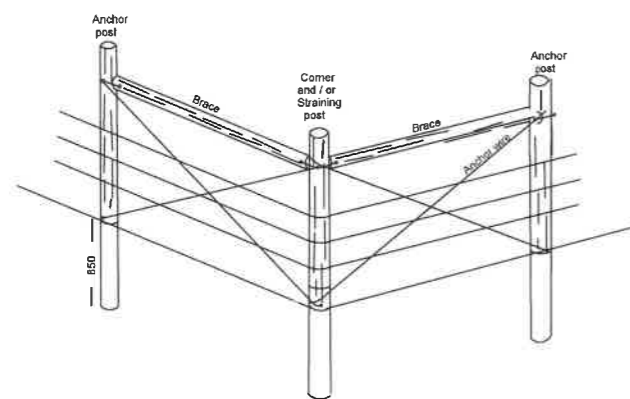
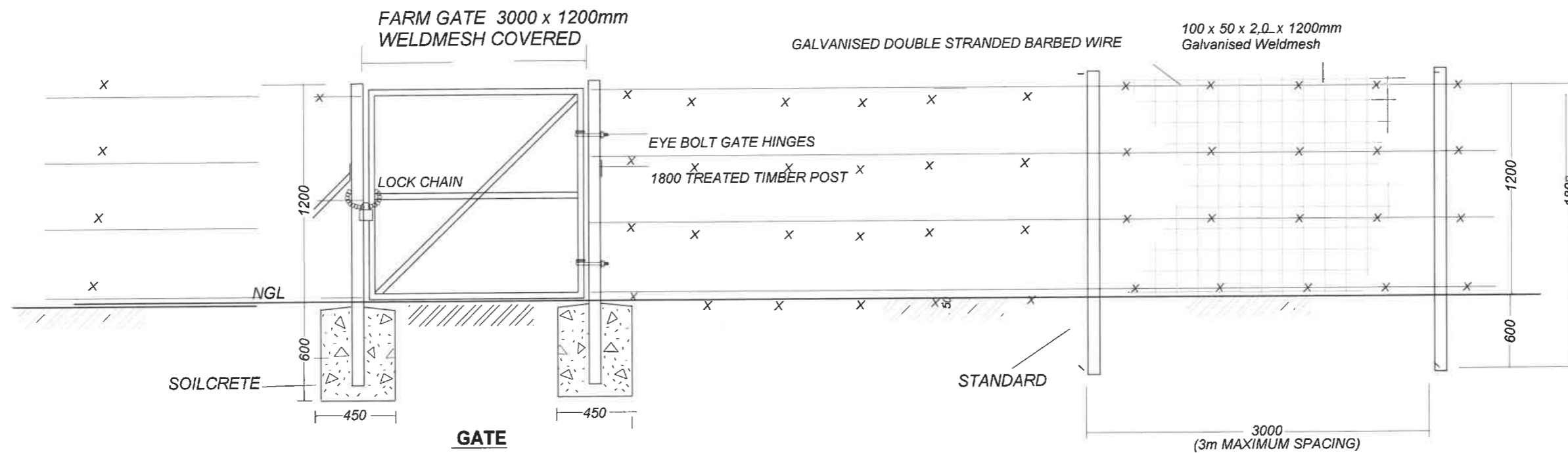
500 liter AND/OR 160 liter WATER TROUGH DETAIL



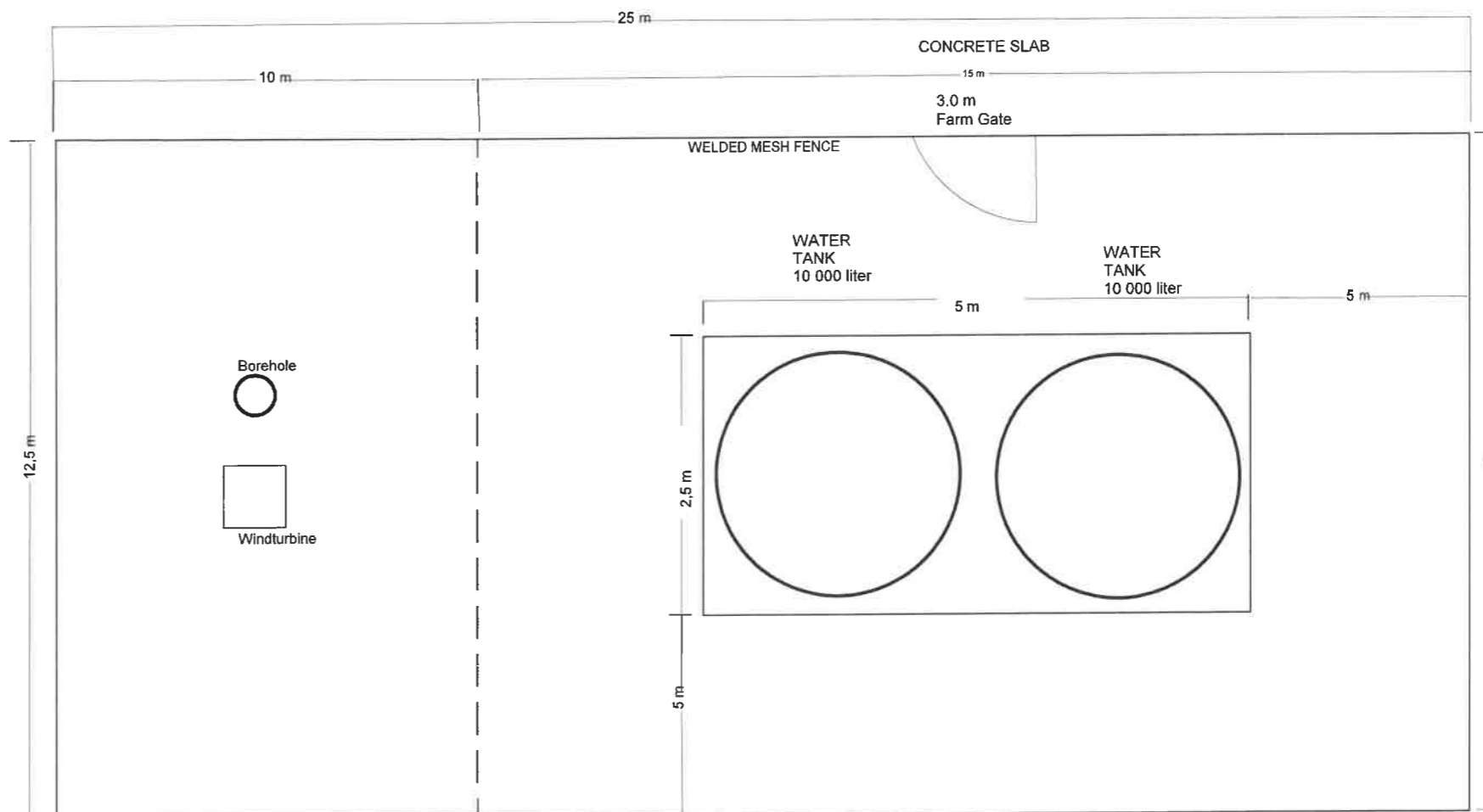
All above ground pipes and fittings shall be 25 mm Galvanised steel

WATER TROUGH CONNECTIONS

NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STOCK WATER SYSTEM	SCALE NTS	INDEX NO. SCMM-02/21/04
				WATER THROUGHS	A3 ORIGINAL	PLAN NO. SHEET 4 OF 5
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			

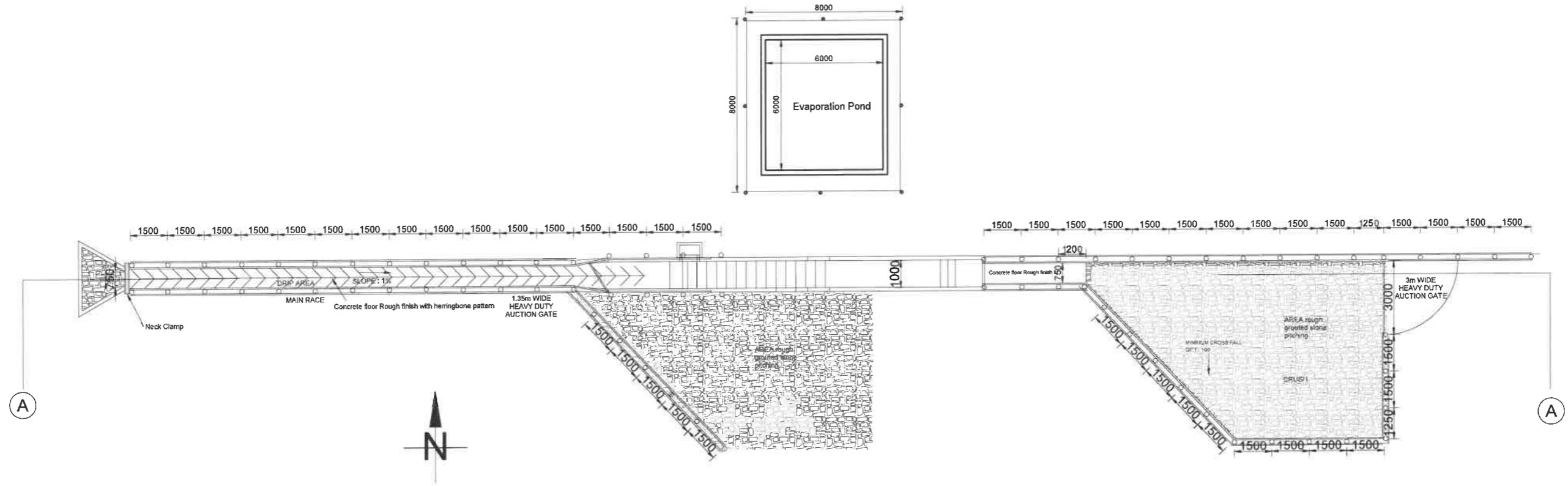


CORNER WITH BOX ANCHOR

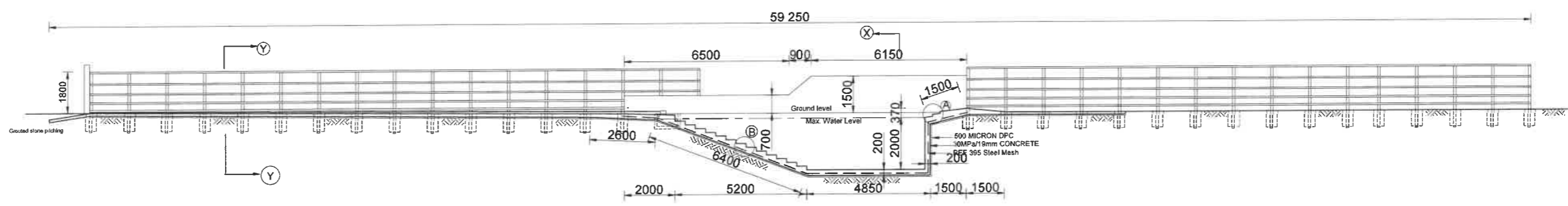


NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STOCK WATER SYSTEM	SCALE	INDEX NO.
					NTS	SCMM-02/21/06
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	WATER TANKS TERRAIN FENCE	A3 ORIGINAL	PLAN NO. SHEET 5 OF 5

22 STANDARD CATTLE PLUNGE DIP TANK (STEEL)



PLAN VIEW



SECTION A-A

THIS OFFICE SHOULD BE NOTIFIED FOR INSPECTIONS AT THE FOLLOWING STAGES:

1. After the excavations has been completed and before concrete is placed.
2. After formwork has been placed.

SPECIFICATIONS FOR CONCRETE:

1. Ratio mix for 30 MPa concrete is 1 cement : 2 sand : 2 stone (19mm)

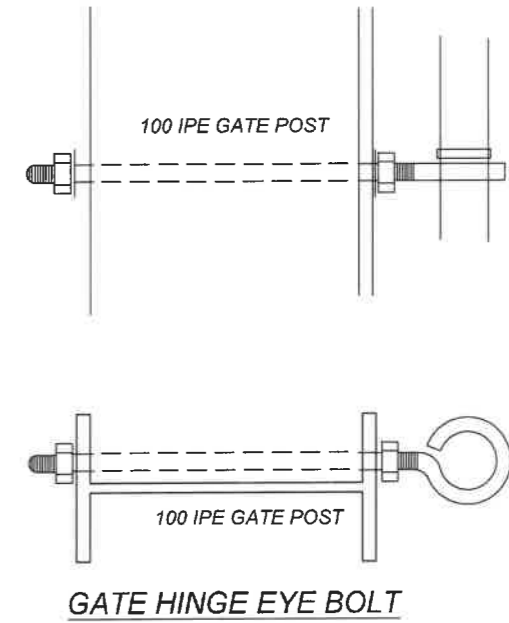
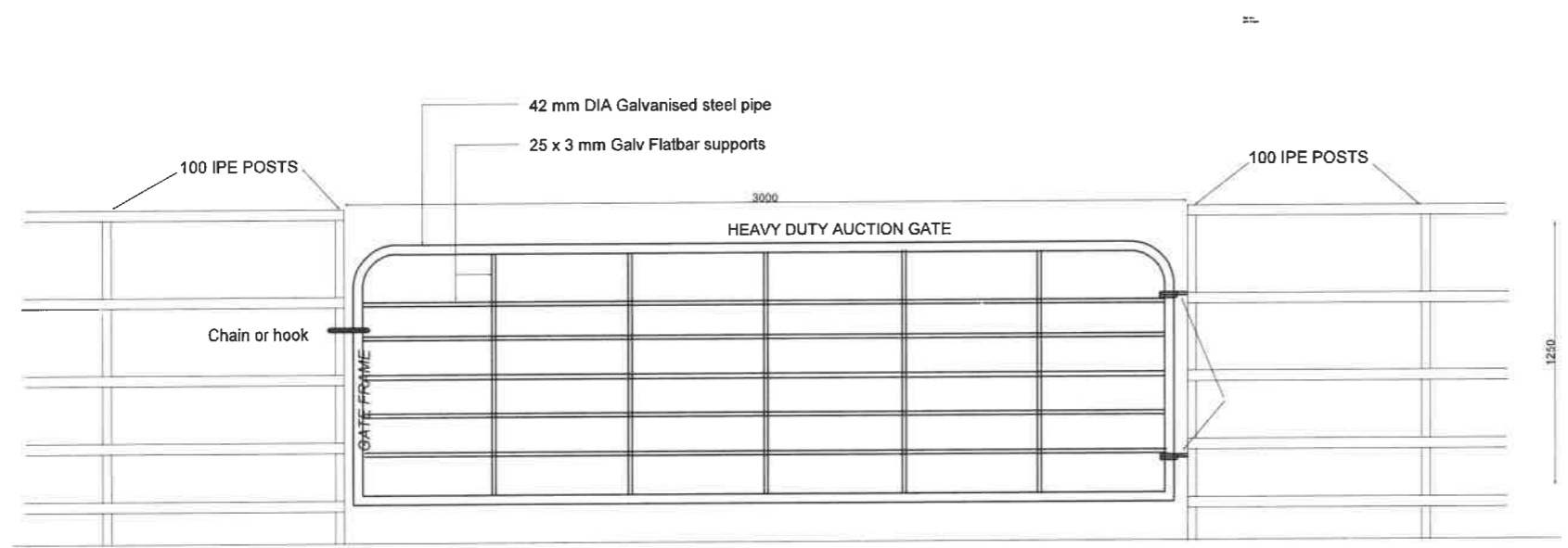
GROUTED STONE PITCHING

- Grout mix
1 cement : 2 washed river sand.
100mm to 150mm dia stones.

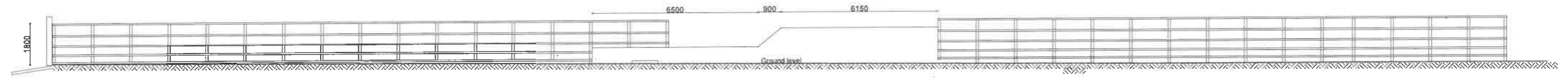
PERIMETER FENCE

NB: The position of the perimeter fence will be pointed out by the engineer on site

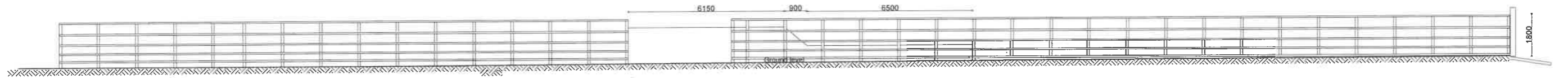
NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD PLUNGE DIP (STEEL)	SCALE	INDEX NO.
					NTS	SCMM-02/22/01
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	SITE LAYOUT PLAN	A3 ORIGINAL	PLAN NO. SHEET 1 OF 9



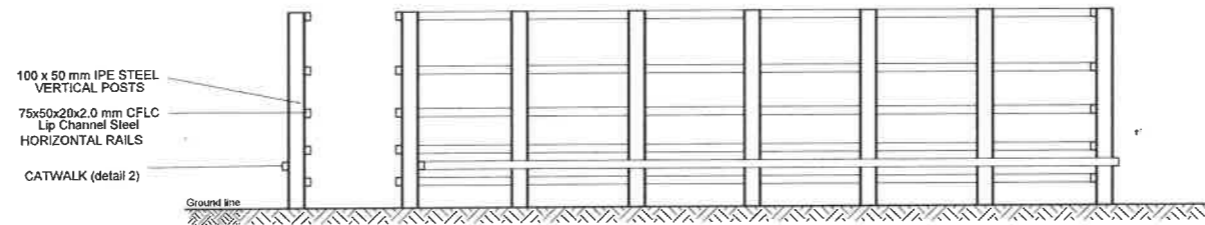
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		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	AUCTION GATES	A3 ORIGINAL	PLAN NO. SHEET 2 OF 9



NORTH ELEVATION



SOUTH ELEVATION

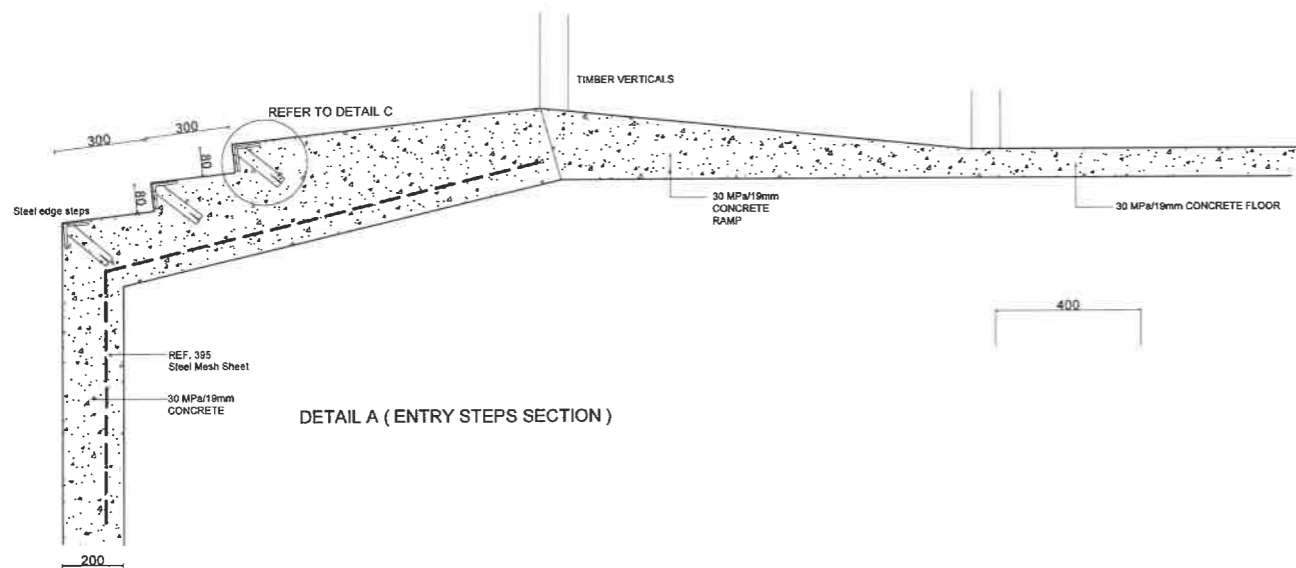


WEST ELEVATION

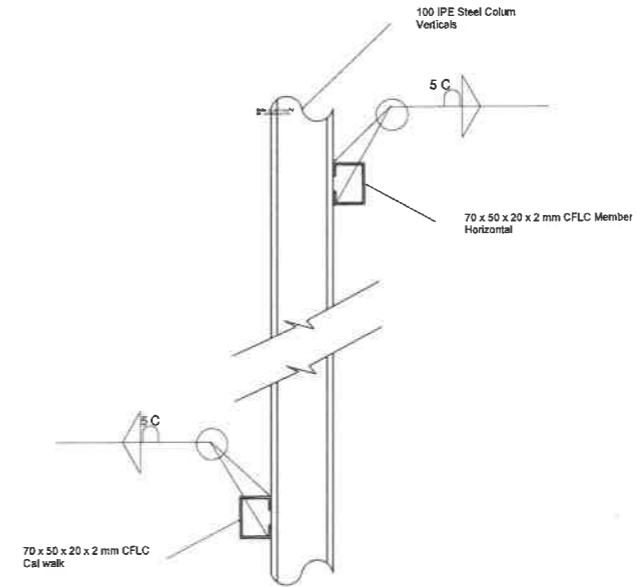


EAST ELEVATION

NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER) APRIL 2022 (DATE APPROVED)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	STANDARD PLUNGE DIP (STEEL)	SCALE	INDEX NO.
					NTS	SCMM-02/22/03
					A3 ORIGINAL	PLAN NO.
					ELEVATIONS	SHEET 3 OF 9

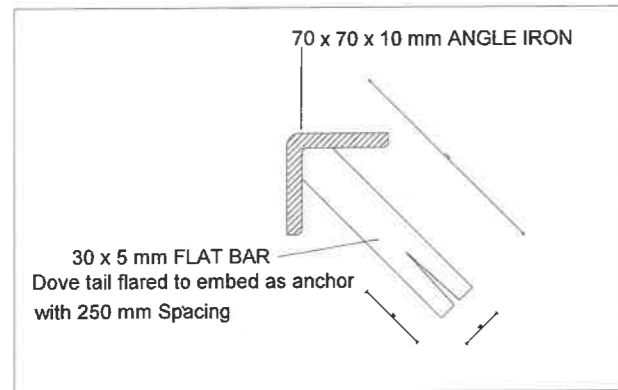


DETAIL A (ENTRY STEPS SECTION)

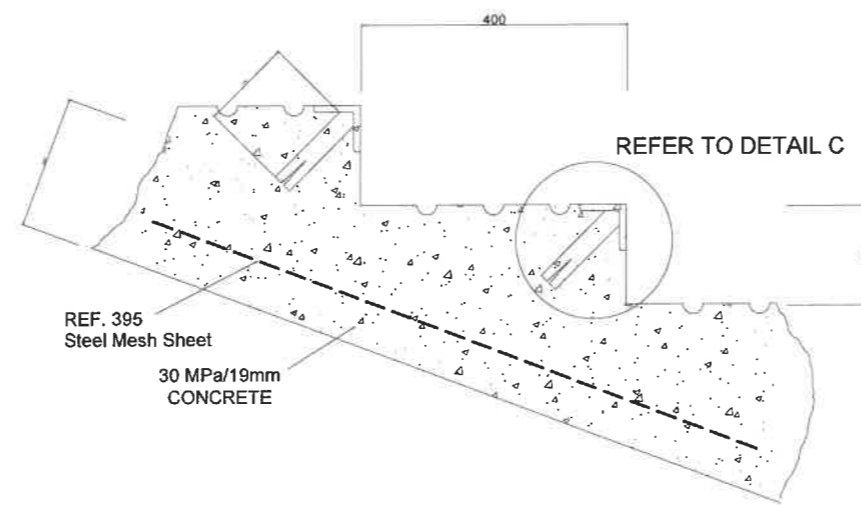


JOINT DETAIL HORIZONTAL MEMBERS

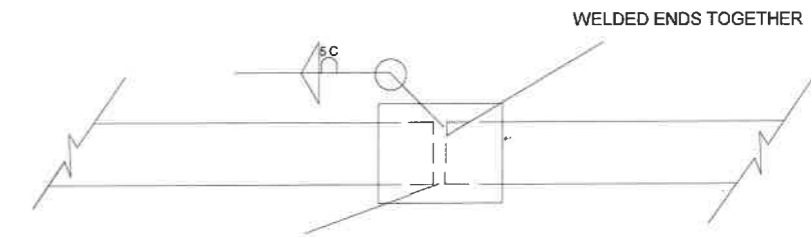
DETAIL D



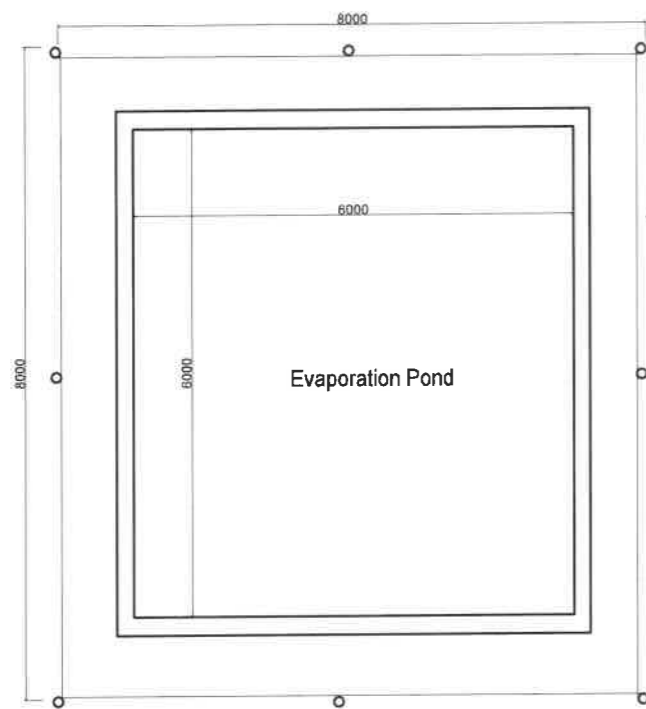
DETAIL C



DETAIL B (EXIT STEPS SECTION)

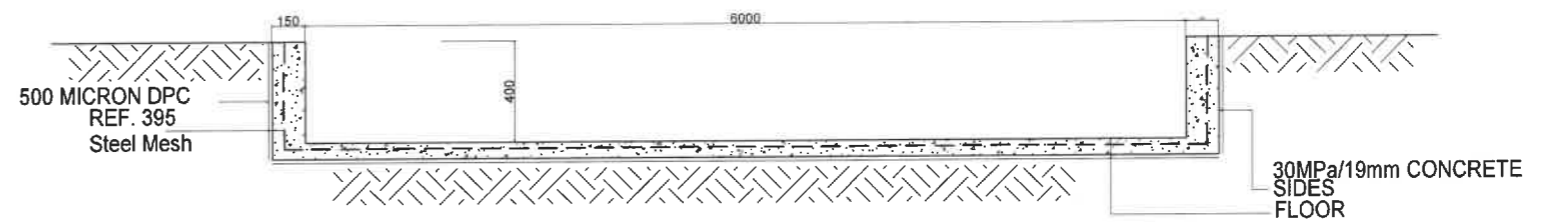


NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD PLUNGE DIP (STEEL)	SCALE	INDEX NO.
					NTS	SCMM-02/22/04
					A3 ORIGINAL	PLAN NO.
						SHEET 4 OF 9
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	DETAILS		



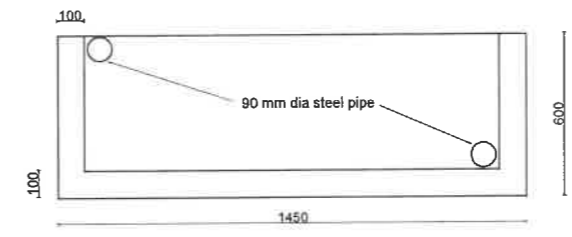
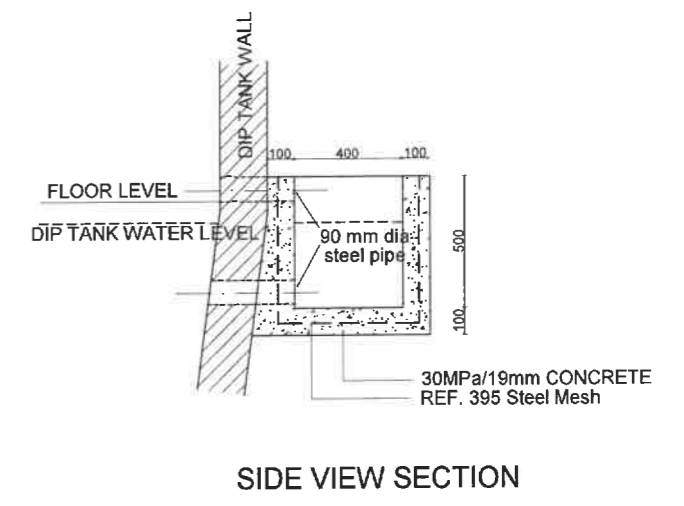
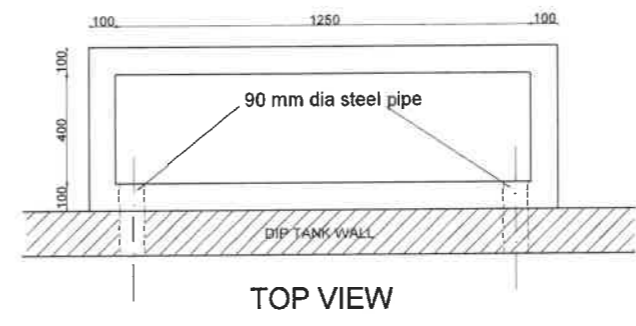
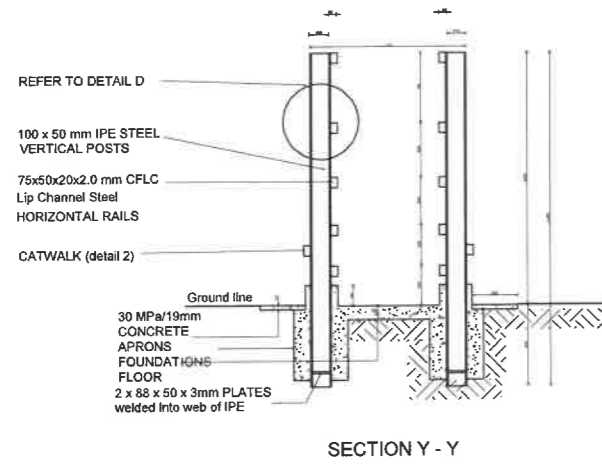
1.2m, 9 Strand
Stock proof fence

DISTANCE BETWEEN
POND FENCE AND
DIP TANK RAILS TO
BE 1000mm MIN

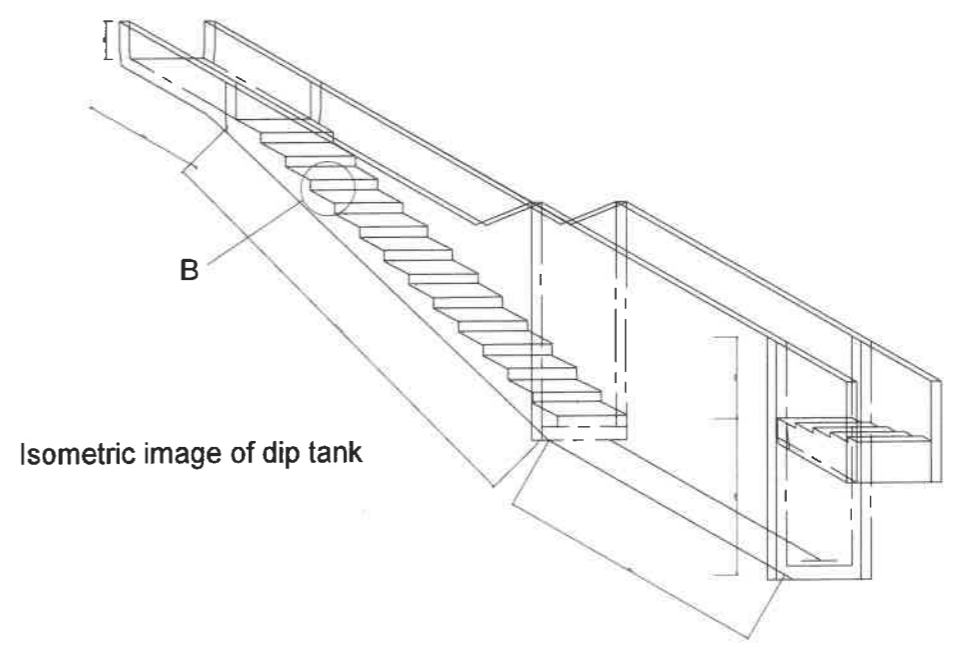
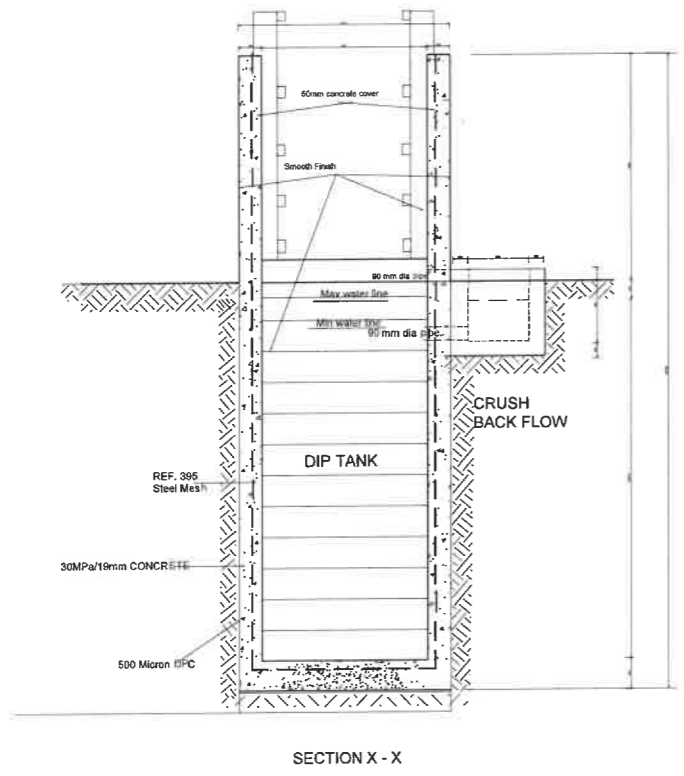


SECTION EVAPORATION POND

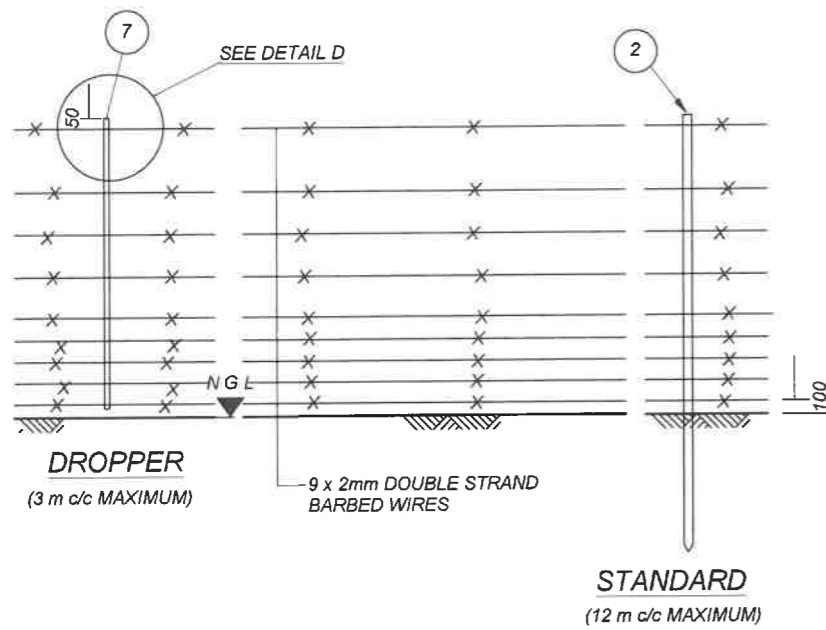
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				EVAPORATION POND	A3 ORIGINAL	PLAN NO. SHEET 5 OF 9
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			



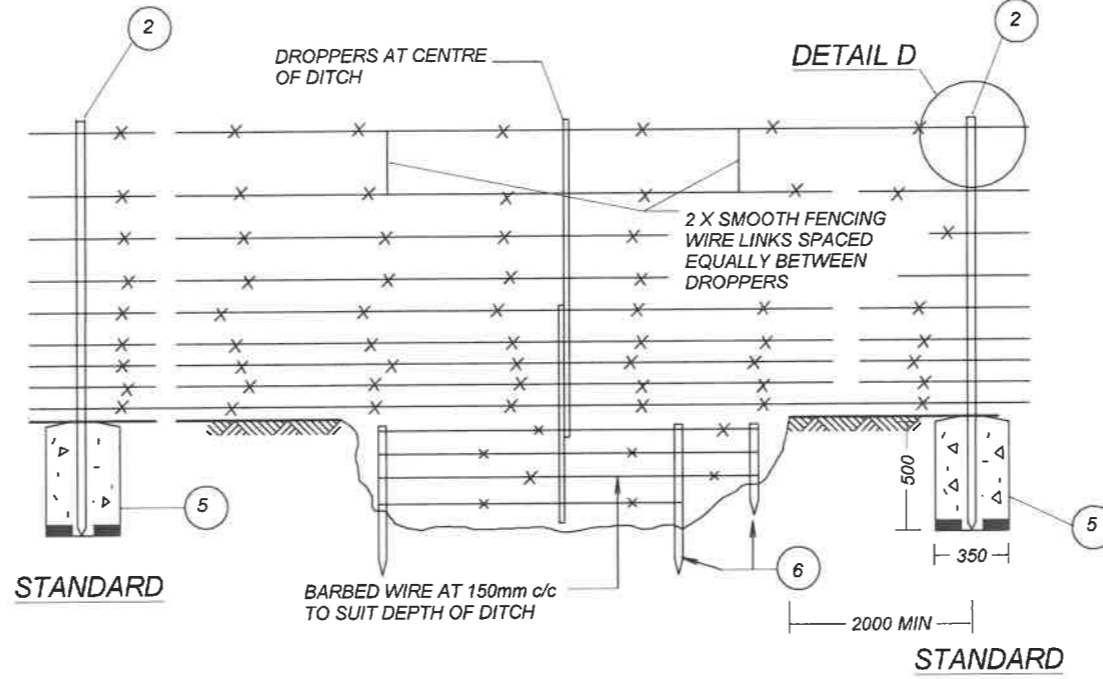
DEBRIS COLLECTOR WEIR



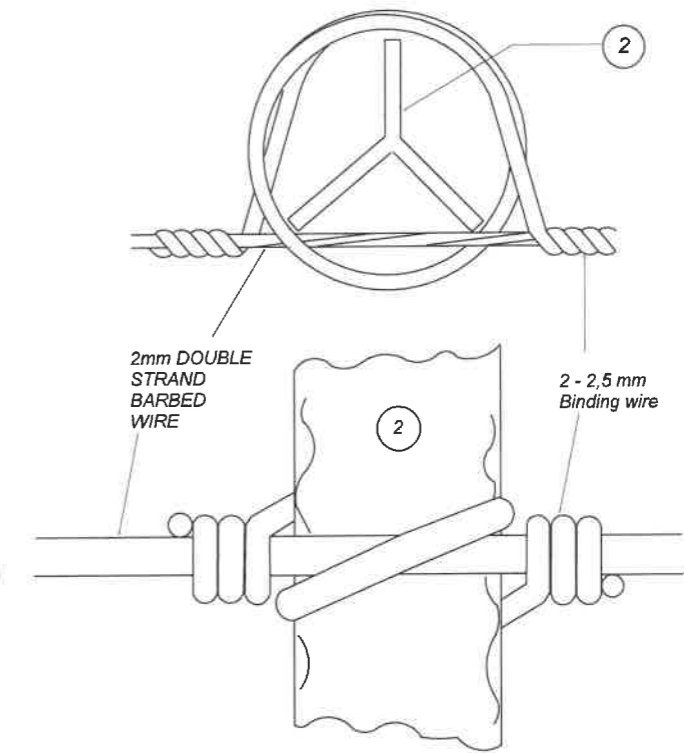
NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD PLUNGE DIP (STEEL)	SCALE NTS	INDEX NO. SCMM-02/22/06
				SECTIONS	A3 ORIGINAL	PLAN NO. SHEET 6 OF 9
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			



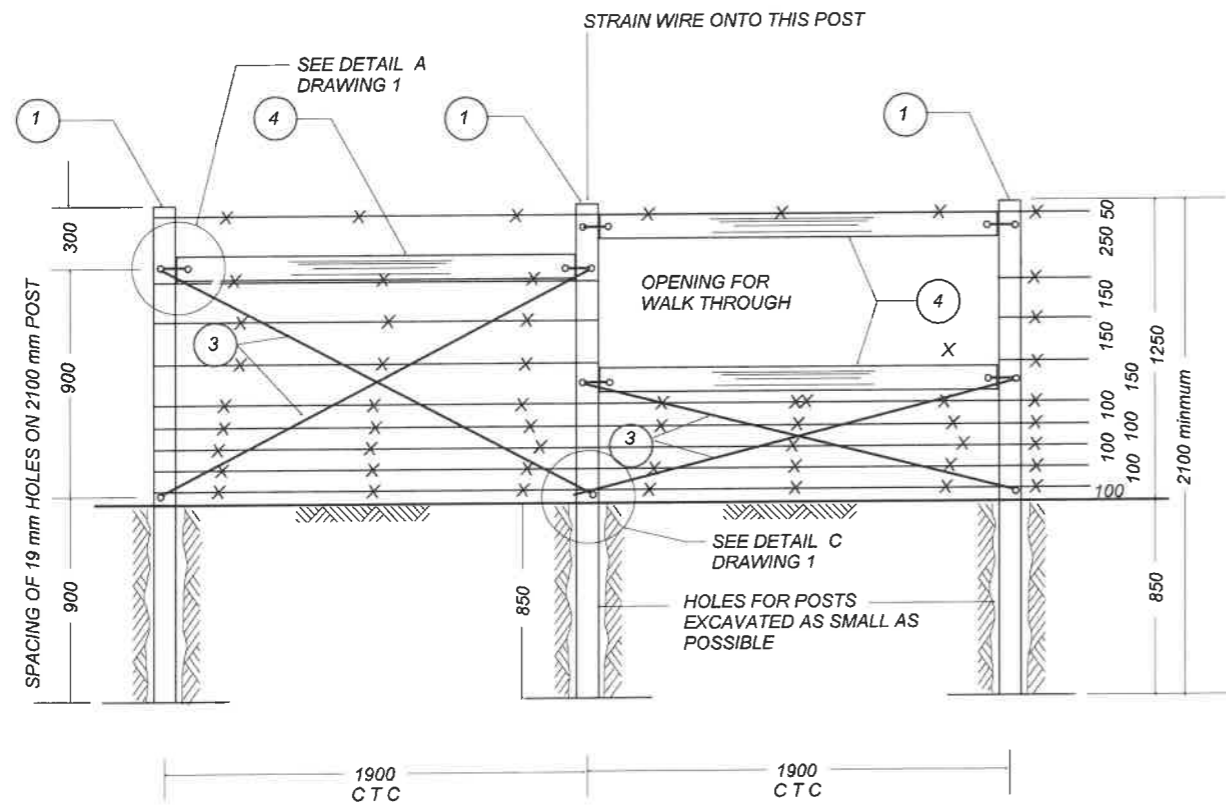
STOCK PROOF FENCE



CROSSING CANALS AND TRENCHES



DETAIL D



STRAINING POST with BOX ANCHOR WALKTHROUGH

(250m MAXIMUM SPACING)

LEGEND

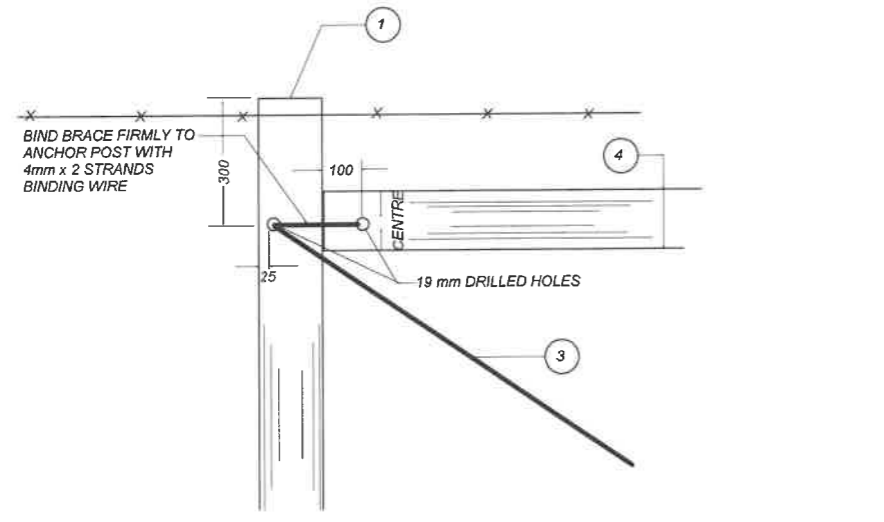
- 1 — 125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST CORNER, STRAINING AND ANCHOR POSTS
- 2 — 2,0 kg/m x 1800 mm Y SECTION IRON STANDARD
- 3 — 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- 4 — 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST BRACES IN BOX ANCHORS
- 5 — STANDARDS EMBEDDED IN CLASS 20/19 CONCRETE IF ORDERED BY THE ENGINEER
- 6 — STAKES (DROPPER PROFILE) OF SUITABLE LENGTH DRIVEN FIRMLY INTO SIDES & BED OF TRENCH AT APPROVED SPACINGS. STAKES TO BE ALIGNED WITH & TIED TO DROPPERS WITH WIRE WHERE REQUIRED.
- 7 — 0,56 kg/m x 1150 mm RIDGEBACK PATTERN IRON DROPPER

NGL NATURAL GROUND LEVEL

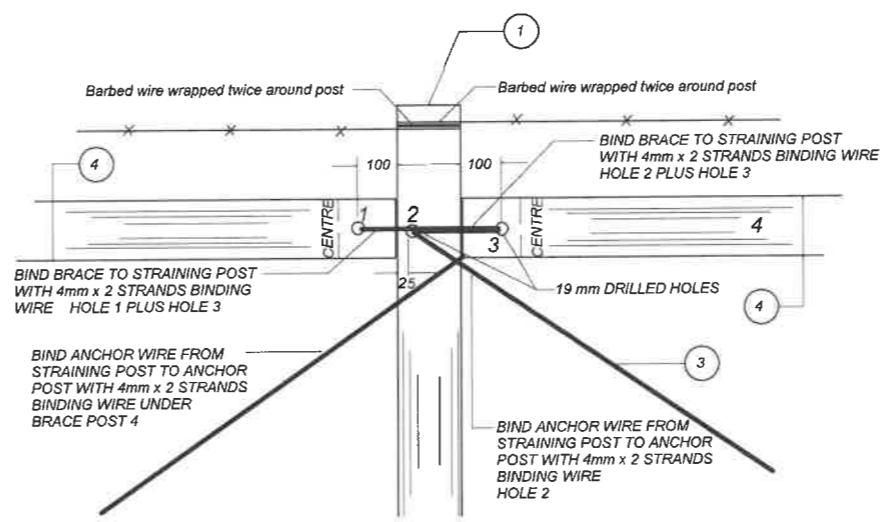
NOTES:

THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

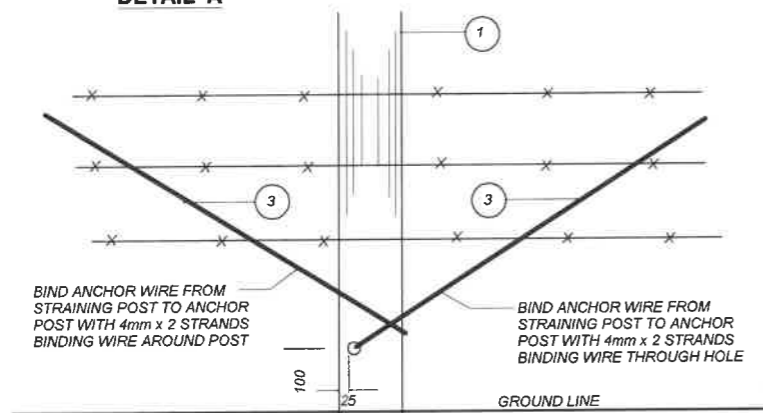
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						APRIL 2022 (DATE APPROVED)	NTS
					POND FENCE - 1	A3 ORIGINAL	PLAN NO. SHEET 7 OF 9



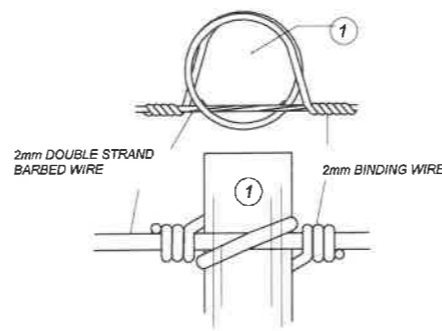
DETAIL A



DETAIL B



DETAIL C



DETAIL D

LEGEND

1
125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST CORNER, STRAINING AND ANCHOR POSTS

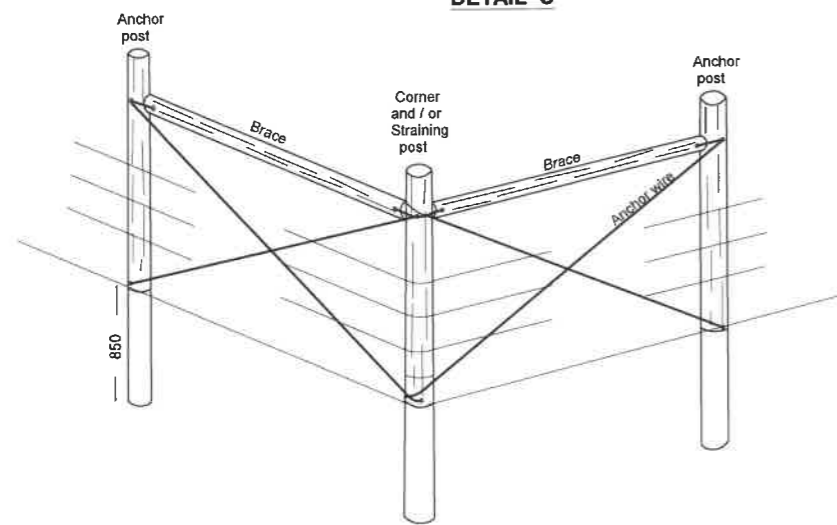
3
4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE

4
100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST BRACES IN BOX ANCHORS

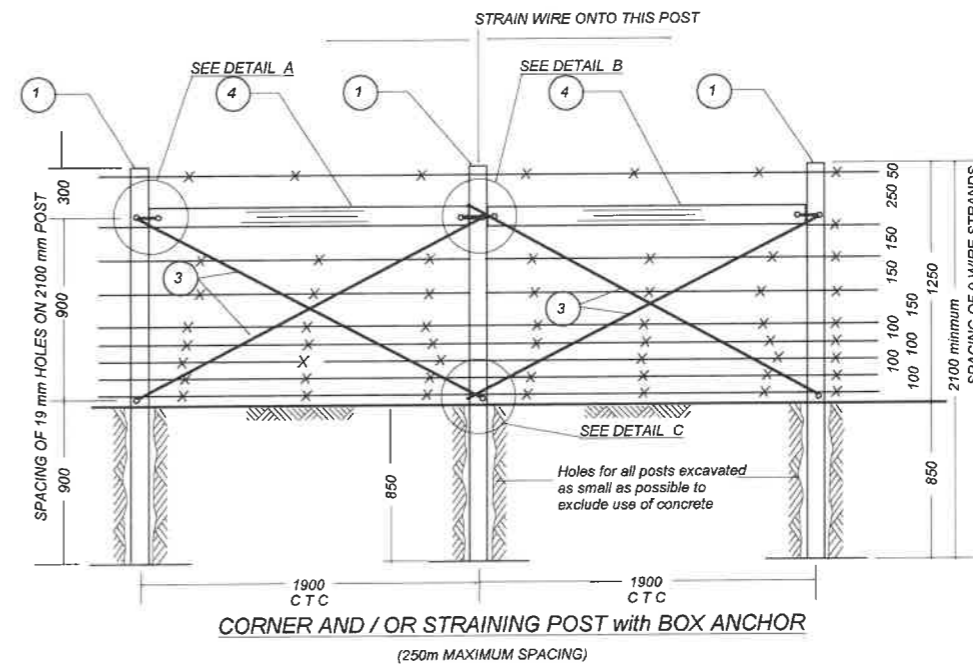
NOTES:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

NGL NATURAL GROUND LEVEL



CORNER WITH BOX ANCHOR



CORNER AND / OR STRAINING POST WITH BOX ANCHOR (250m MAXIMUM SPACING)

NO.	SPECIAL NOTES:

JPJ KOCH
(CHIEF ENGINEER)

APRIL 2022
(DATE APPROVED)

**DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM
PROVINCE OF THE EASTERN CAPE**

ENGINEERING SERVICES
PRIVATE BAG X015
DOHNE ADI
STUTTERHEIM
4930

**STANDARD PLUNGE DIP
(STEEL)**

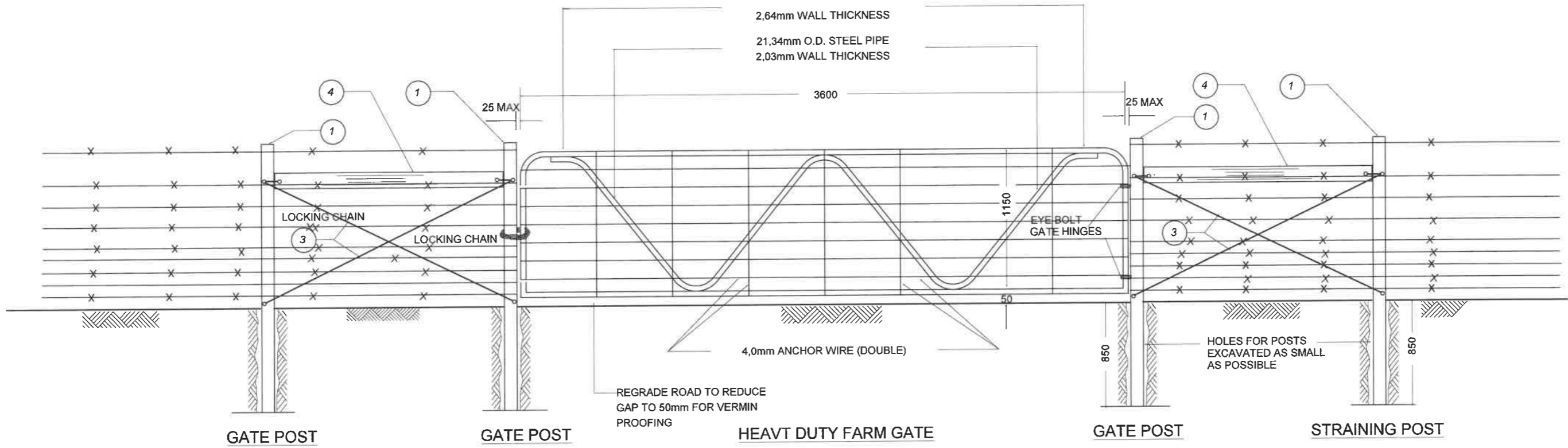
POND FENCE - 2

SCALE
NTS

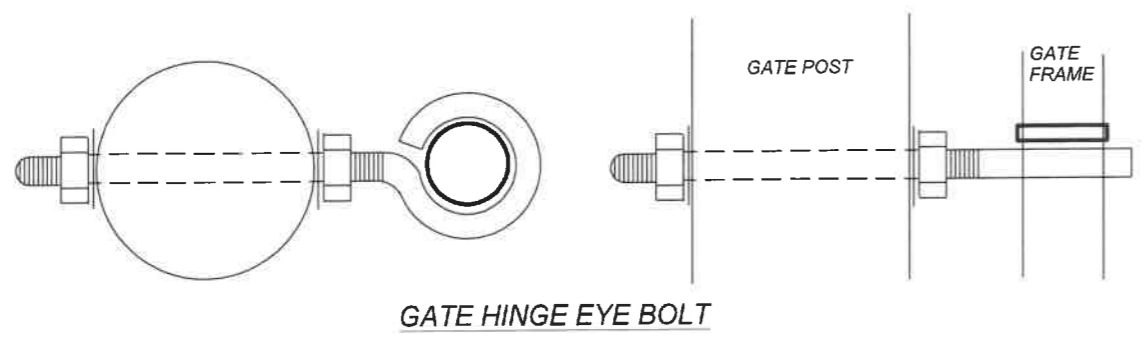
A3 ORIGINAL

INDEX NO.
SCMM-02/22/08

PLAN NO.
SHEET 8 OF 9



FARM GATES



LEGEND

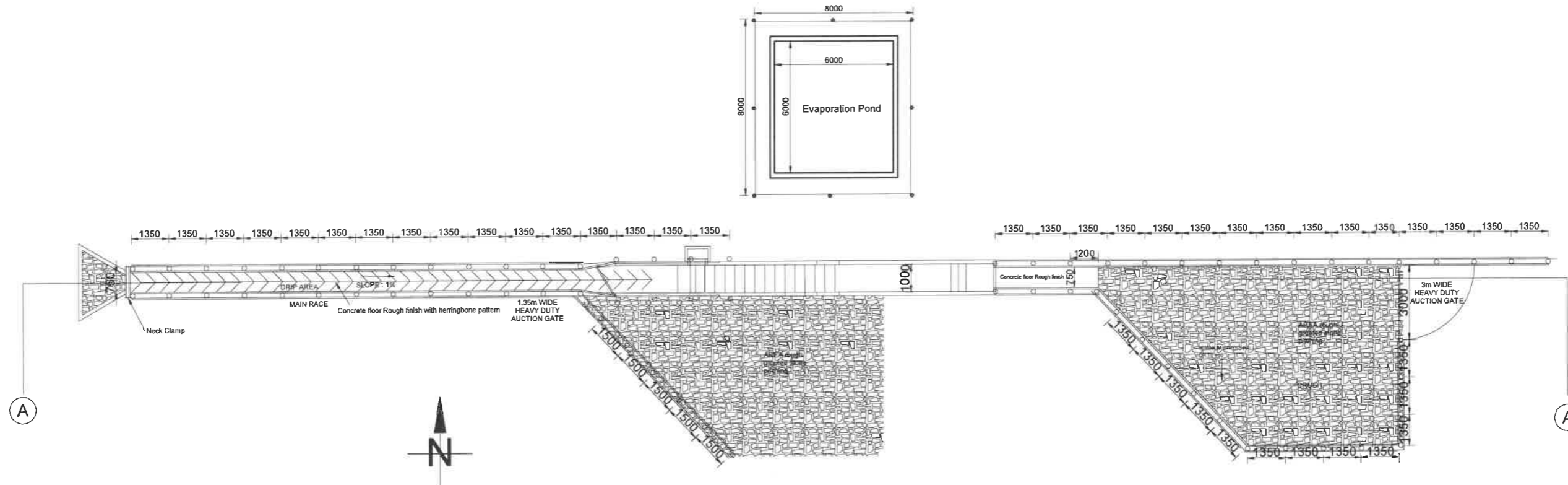
- ① 125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST CORNER, STRAINING, GATE AND ANCHOR POSTS
- ③ 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- ④ 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST BRACES IN BOX ANCHORS

NGL NATURAL GROUND LEVEL

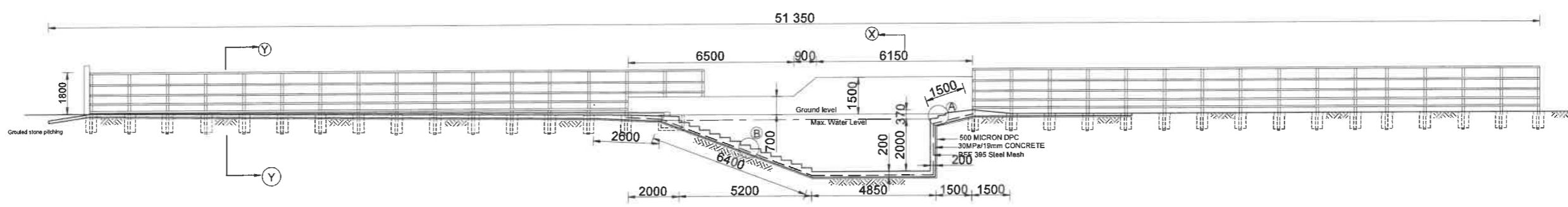
NOTES:
THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER) APRIL 2022 (DATE APPROVED)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	STANDARD PLUNGE DIP (STEEL) SITE LAYOUT PLAN	SCALE NTS A3 ORIGINAL	INDEX NO. SCMM-02/22/09 PLAN NO. SHEET 9 OF 9
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23 STANDARD CATTLE PLUNGE DIP TANK (TIMBER)



PLAN VIEW



SECTION A-A

THIS OFFICE SHOULD BE NOTIFIED FOR INSPECTIONS AT THE FOLLOWING STAGES:

1. After the excavations has been completed and before concrete is placed.
2. After formwork has been placed.

SPECIFICATIONS FOR CONCRETE:

1. Ratio mix for 30 MPa concrete is 1 cement : 2 sand : 2 stone (19mm)

GROUTED STONE PITCHING

Grout mix
1 cement : 2 washed river sand.
100mm to 150mm dia stones.

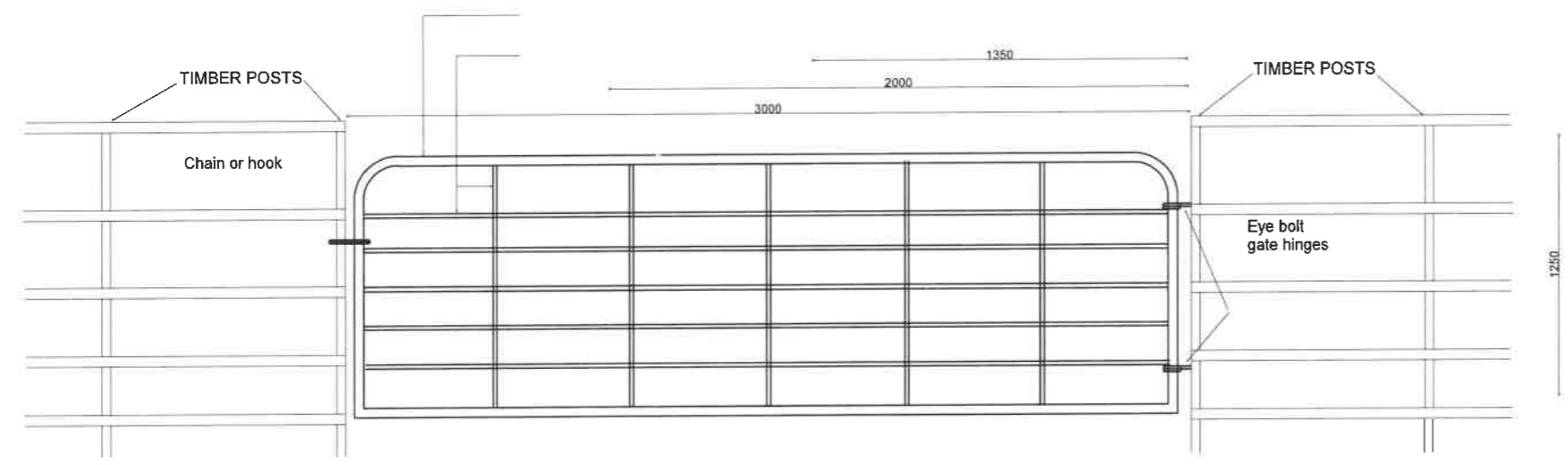
PERIMETER FENCE

NB: The position of the perimeter fence will be printed out by the engineer on site

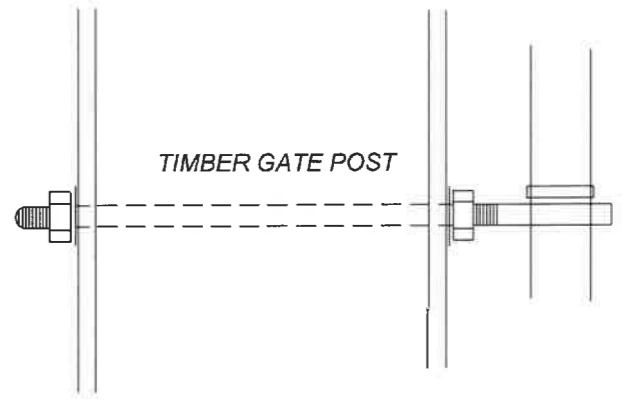
NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD PLUNGE DIP (TIMBER)	SCALE	INDEX NO.
					NTS	SCMM-02/23/01
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	SITE LAYOUT PLAN	A3 ORIGINAL	PLAN NO. SHEET 1 OF 9

PLAN VIEW

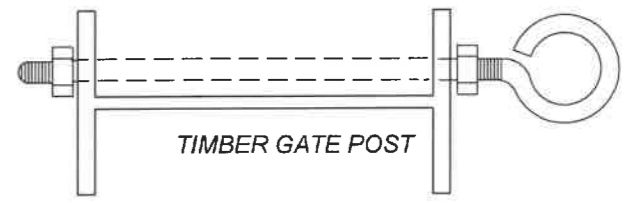
42 mm DIA Galvanised steel pipe
25 x 3 mm Galv Flatbar supports



HEAVY DUTY AUCTION GATE



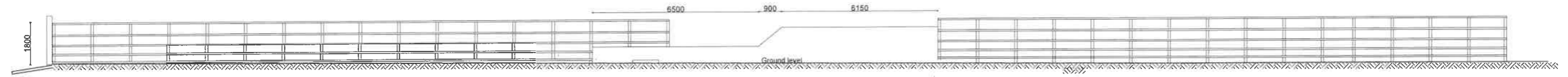
TIMBER GATE POST



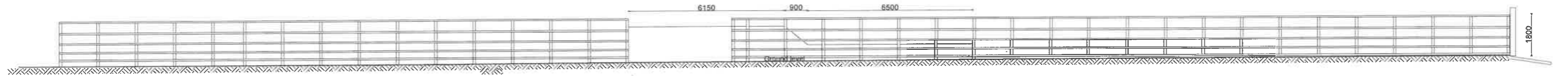
TIMBER GATE POST

GATE HINGE EYE BOLT

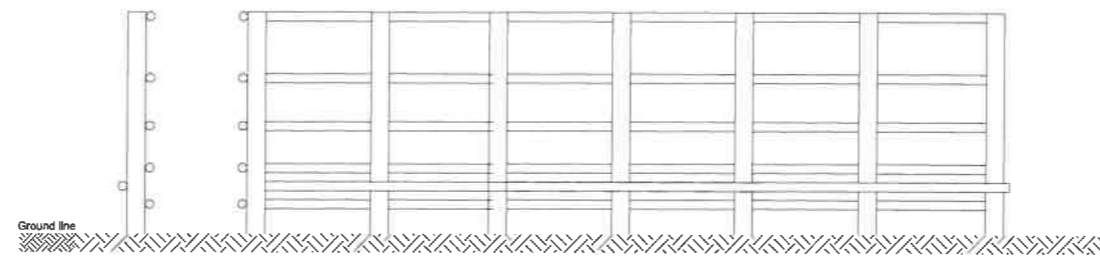
NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER) APRIL 2022 (DATE APPROVED)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	STANDARD PLUNGE DIP (TIMBER)	SCALE NTS	INDEX NO. SCMM-02/23/02
				AUCTION GATES	A3 ORIGINAL	PLAN NO. SHEET 2 OF 9



NORTH ELEVATION

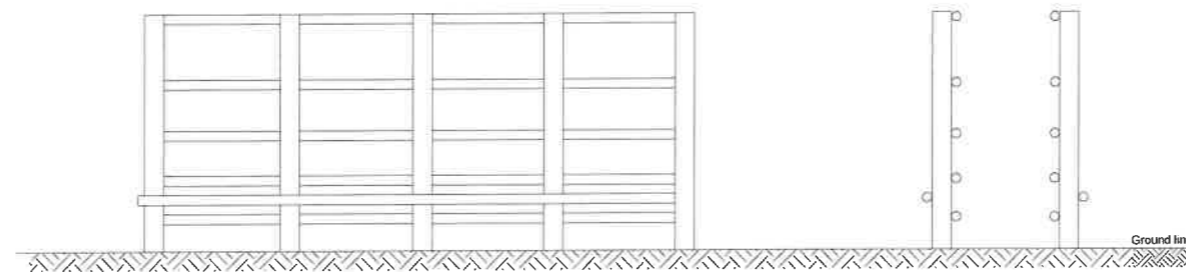


SOUTH ELEVATION



EAST ELEVATION

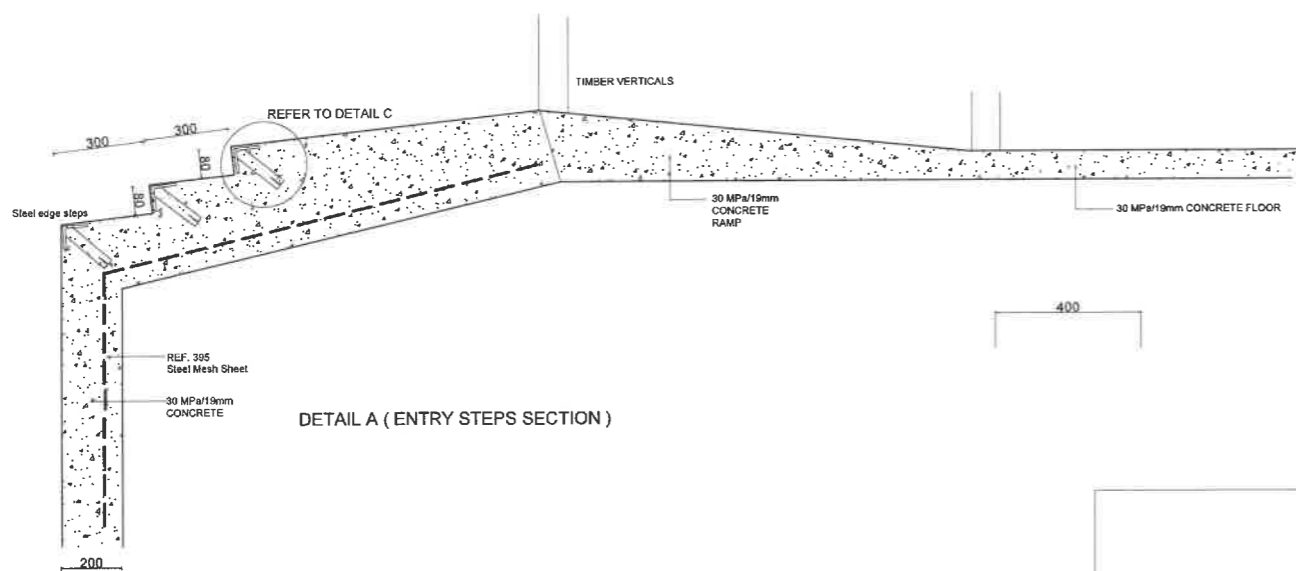
3m WIDE
HEAVY DUTY
AUCTION GATE



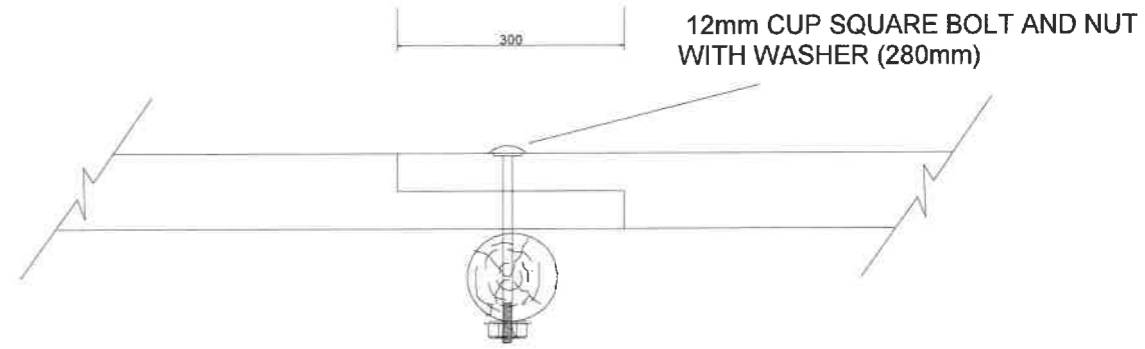
WEST ELEVATION

3m WIDE
HEAVY DUTY
AUCTION GATE

NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD PLUNGE DIP (TIMBER)	SCALE	INDEX NO.
				ELEVATIONS	NTS	SCMM-02/23/03
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930		A3 ORIGINAL	PLAN NO. SHEET 3 OF 9

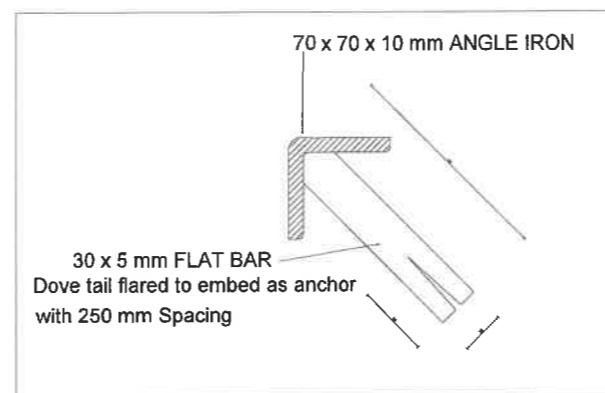


DETAIL A (ENTRY STEPS SECTION)

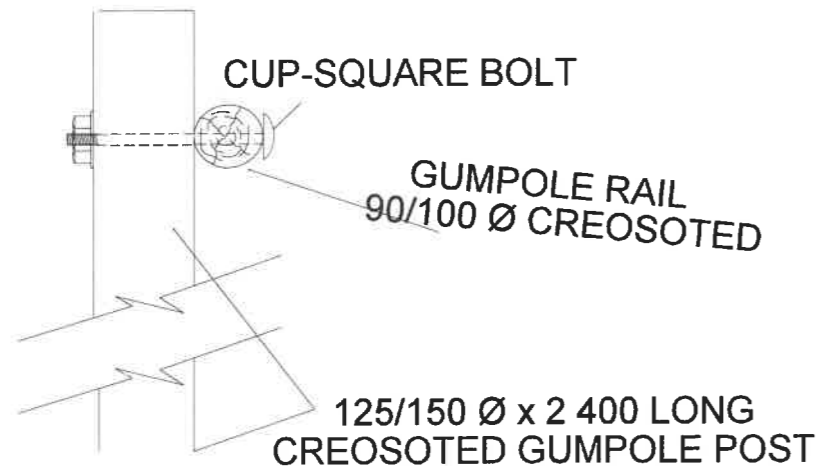


JOINT DETAIL

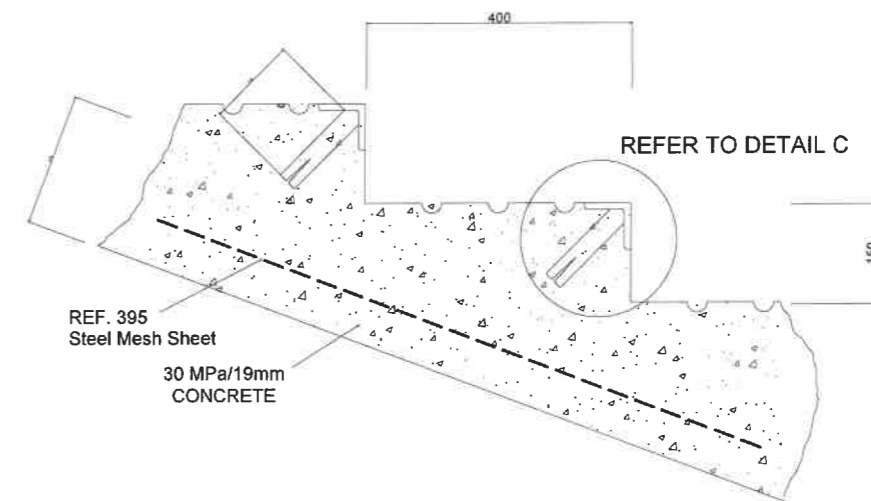
HORIZONTAL POLES



DETAIL C

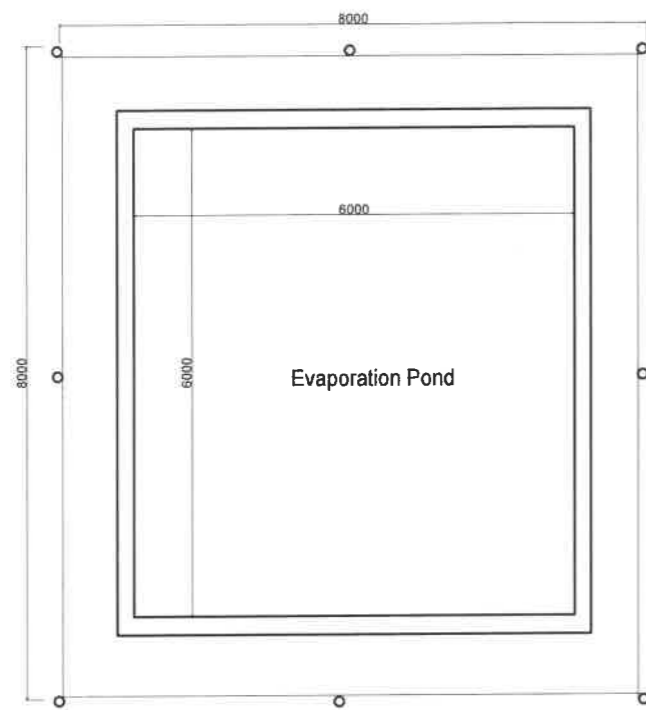


DETAIL D



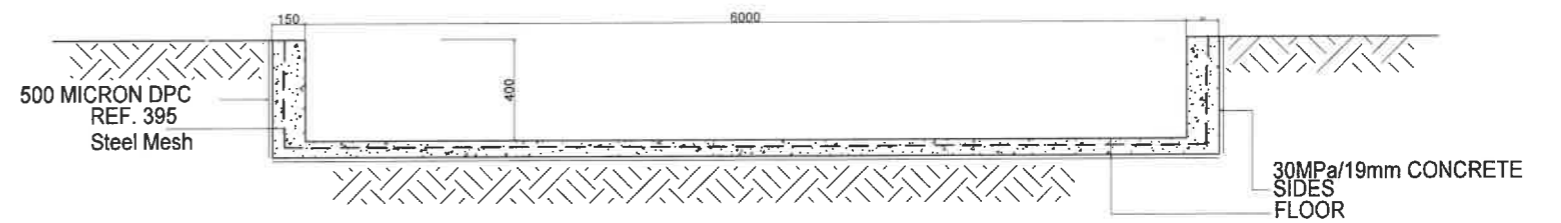
DETAIL B (EXIT STEPS SECTION)

NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD PLUNGE DIP (TIMBER)	SCALE	INDEX NO.			
					NTS	SCMM-02/23/04			
					APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	DETAILS	A3 ORIGINAL	PLAN NO.
									SHEET 4 OF 9



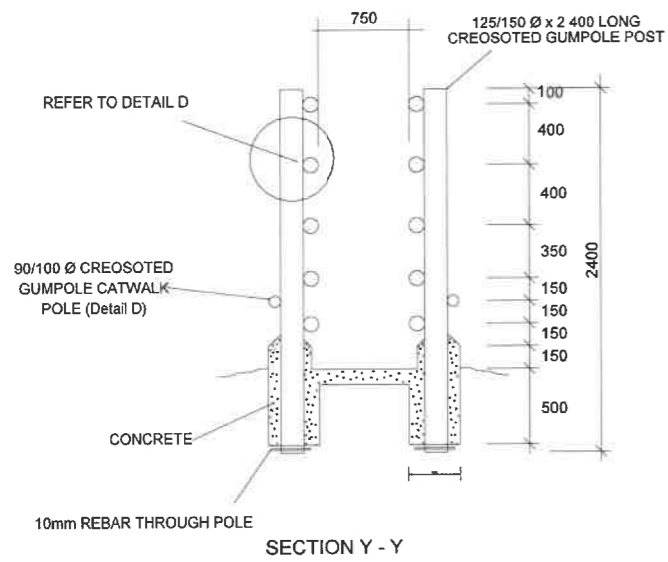
1.2m, 9 Strand
Stock proof fence

DISTANCE BETWEEN
POND FENCE AND
DIP TANK RAILS TO
BE 1000mm MIN

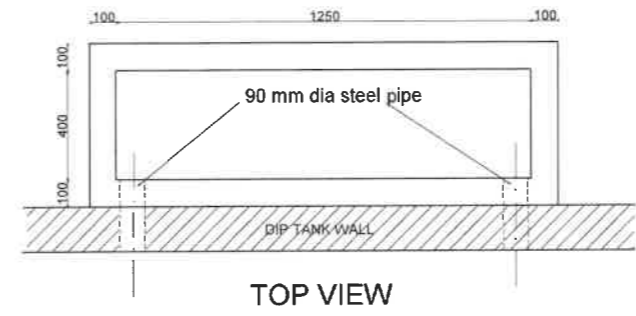


SECTION EVAPORATION POND

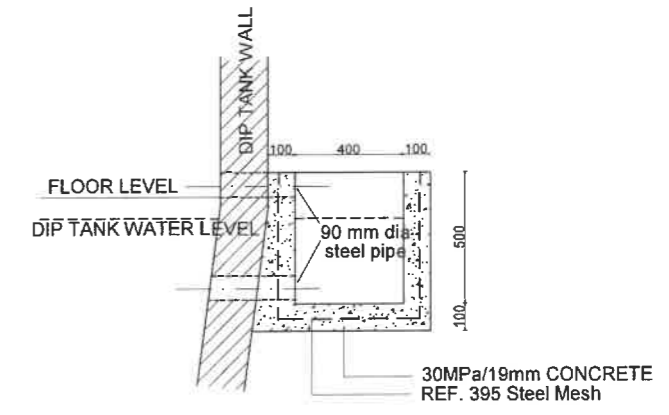
NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD PLUNGE DIP (TIMBER)	SCALE NTS	INDEX NO. SCMM-02/23/05
				EVAPORATION POND	A3 ORIGINAL	PLAN NO. SHEET 5 OF 9
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			



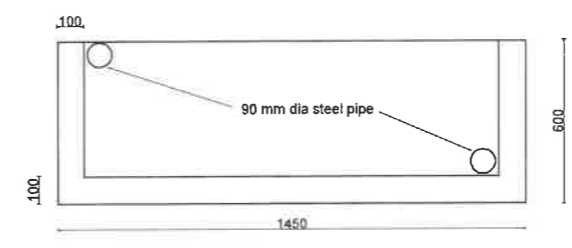
SECTION Y - Y



TOP VIEW

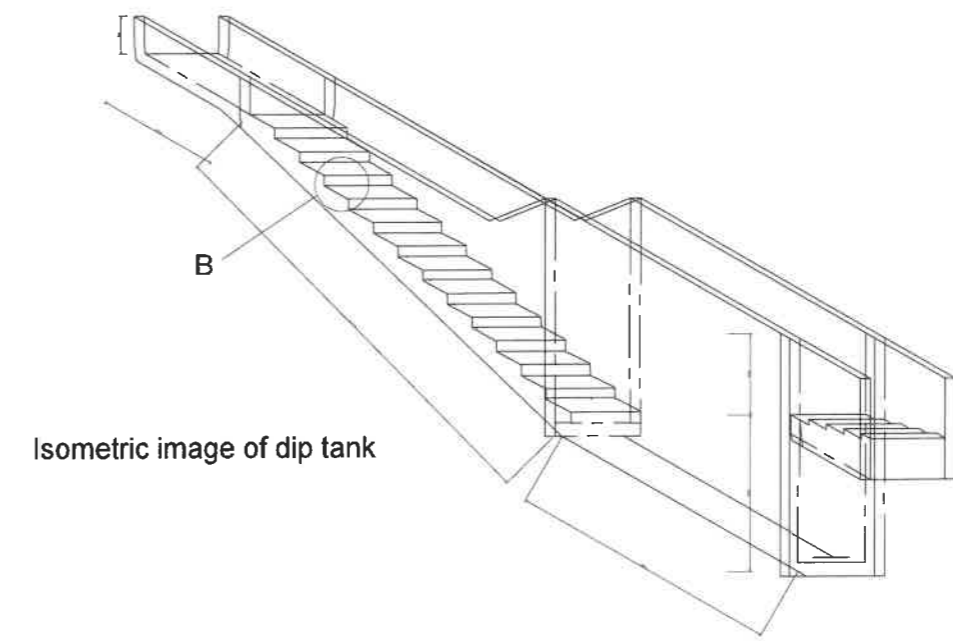


SIDE VIEW SECTION

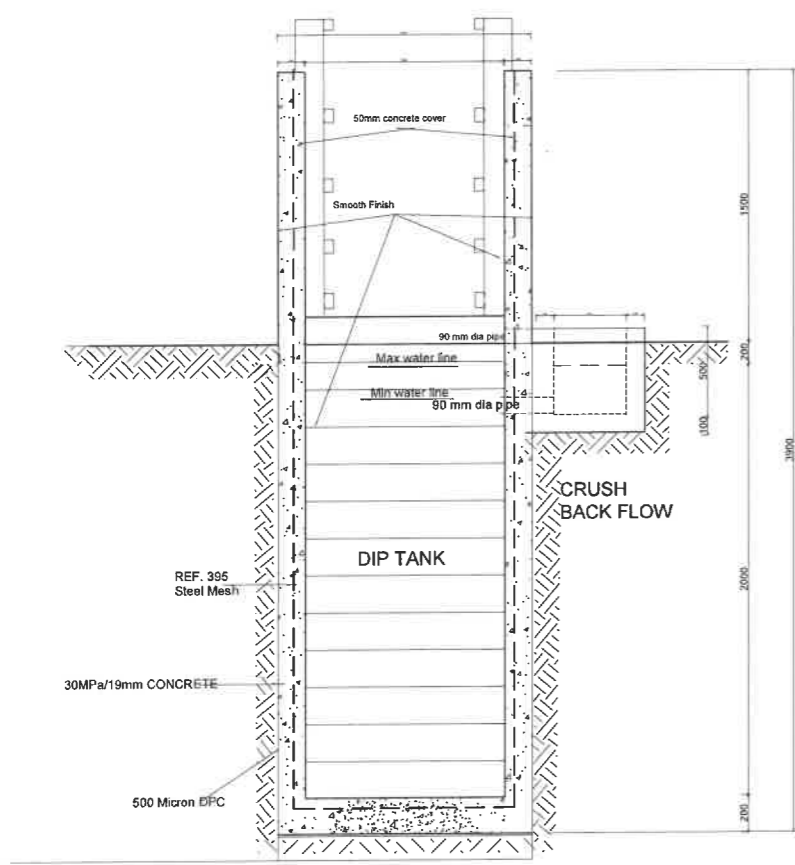


FRONT VIEW

DEBRIS COLLECTOR WEIR

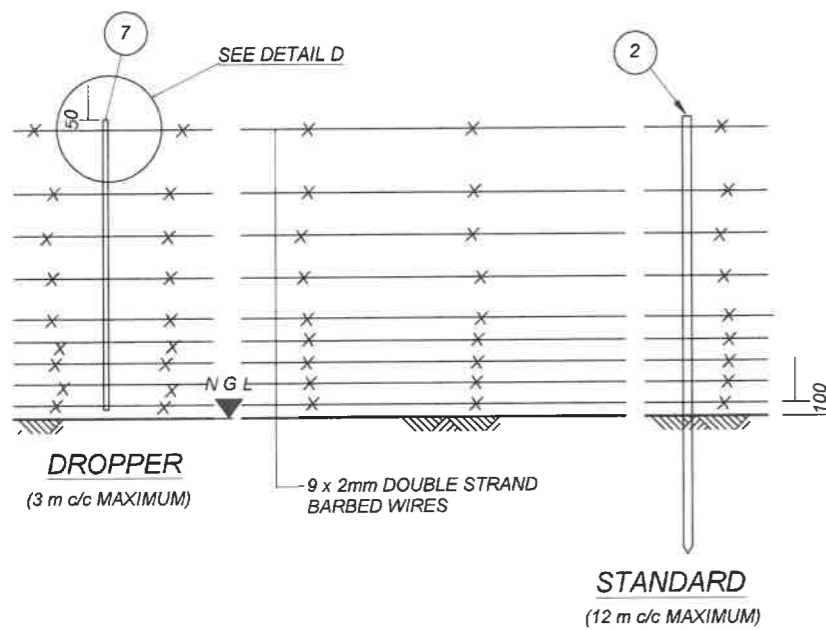


Isometric image of dip tank

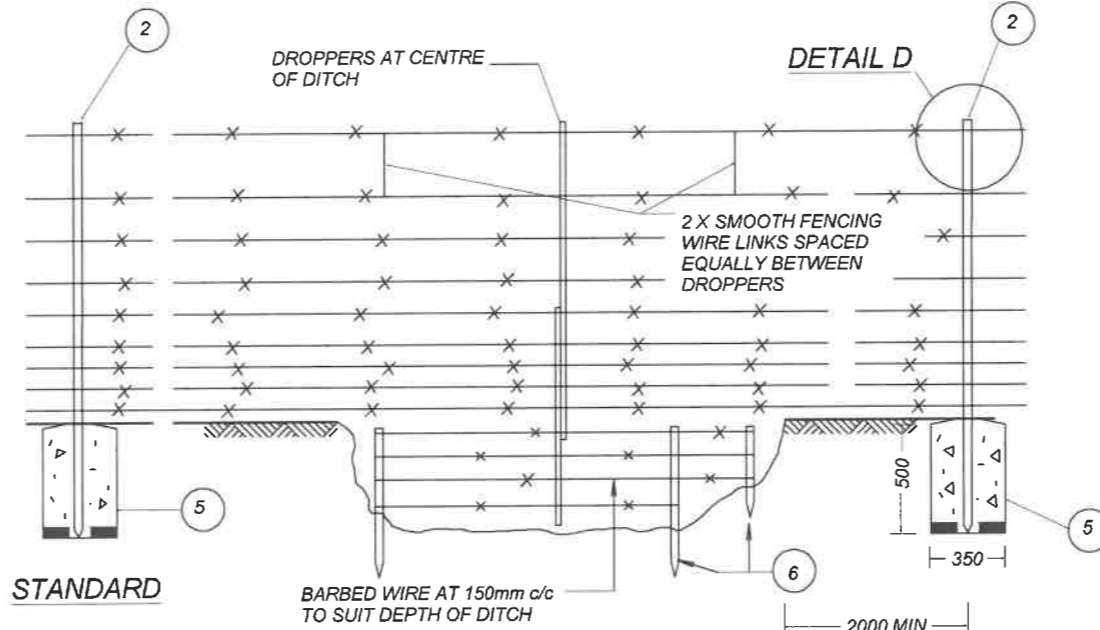


SECTION X - X

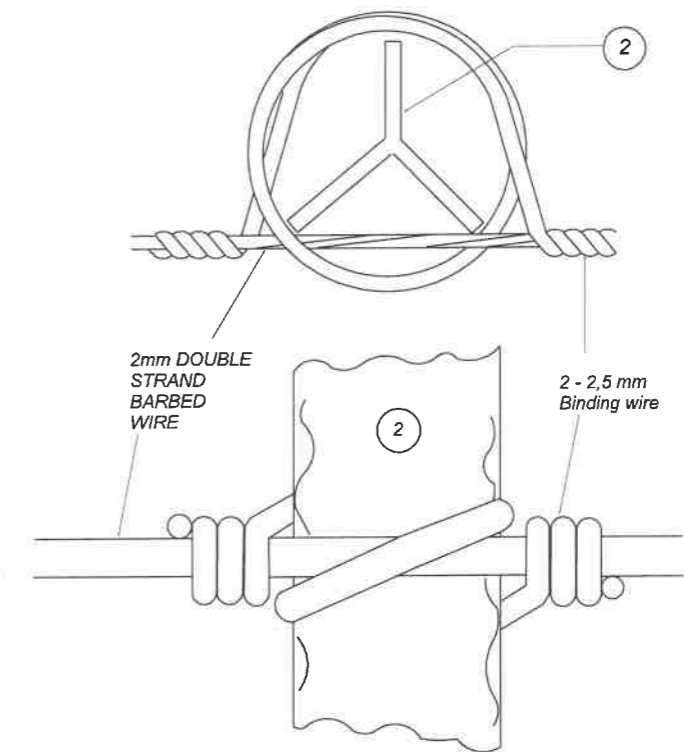
NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD PLUNGE DIP (TIMBER)	SCALE NTS	INDEX NO. SCMM-02/23/06
				SECTIONS	A3 ORIGINAL	PLAN NO. SHEET 6 OF 9
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			



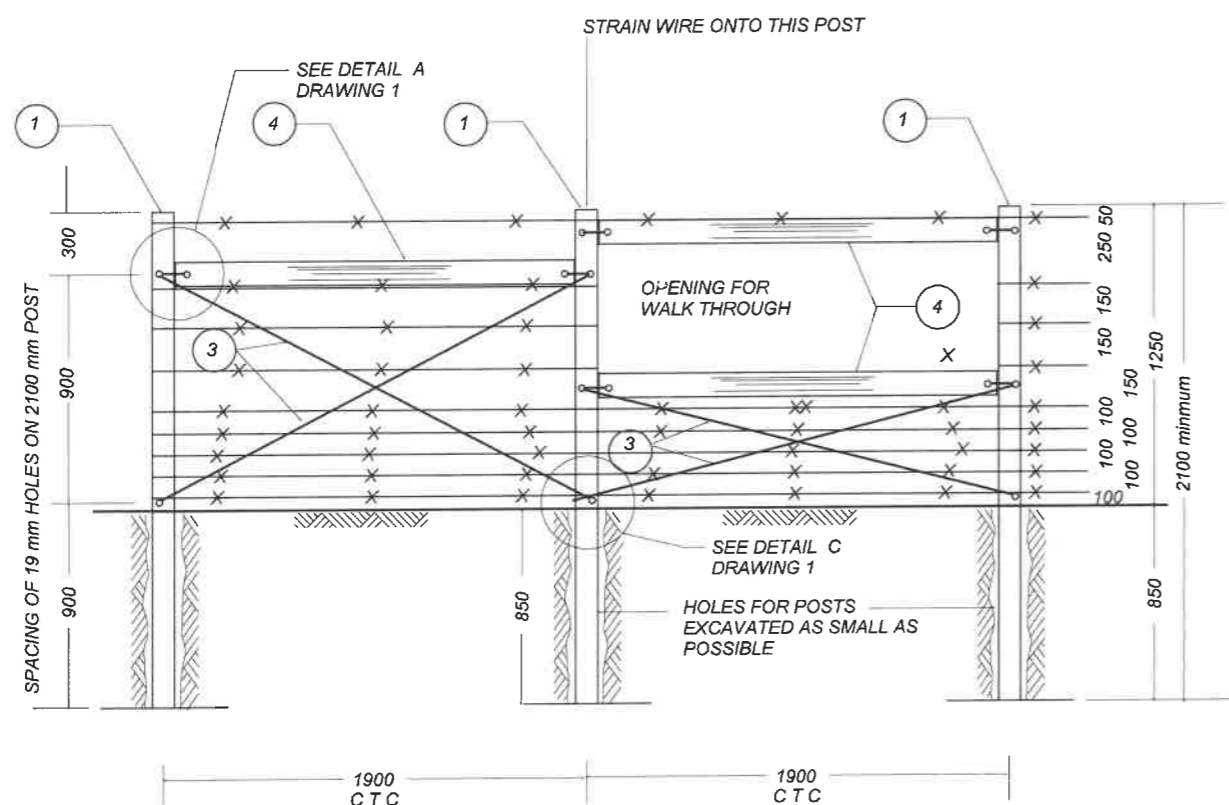
STOCK PROOF FENCE



CROSSING CANALS AND TRENCHES



DETAIL D



STRAINING POST with BOX ANCHOR WALKTHROUGH

(250m MAXIMUM SPACING)

LEGEND

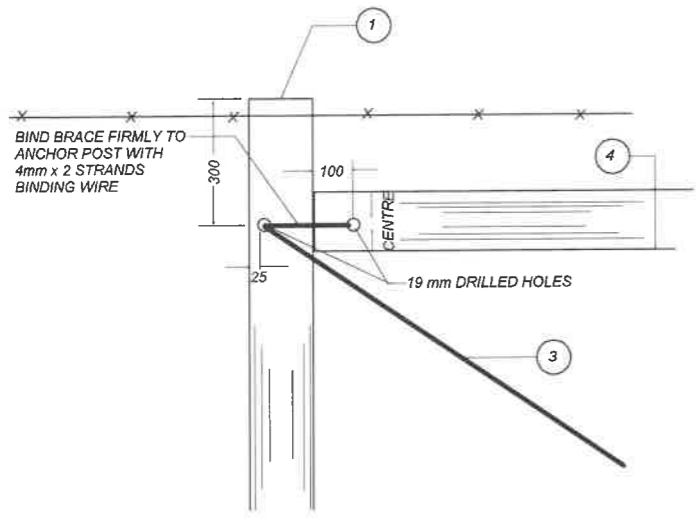
- 1 125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST CORNER, STRAINING AND ANCHOR POSTS
- 2 2,0 kg/m x 1800 mm Y SECTION IRON STANDARD
- 3 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- 4 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST BRACES IN BOX ANCHORS
- 5 STANDARDS EMBEDDED IN CLASS 20/19 CONCRETE IF ORDERED BY THE ENGINEER
- 6 STAKES (DROPPER PROFILE) OF SUITABLE LENGTH DRIVEN FIRMLY INTO SIDES & BED OF TRENCH AT APPROVED SPACINGS. STAKES TO BE ALIGNED WITH & TIED TO DROPPERS WITH WIRE WHERE REQUIRED.
- 7 0,56 kg/m x 1150 mm RIDGEBACK PATTERN IRON DROPPER

NGL NATURAL GROUND LEVEL

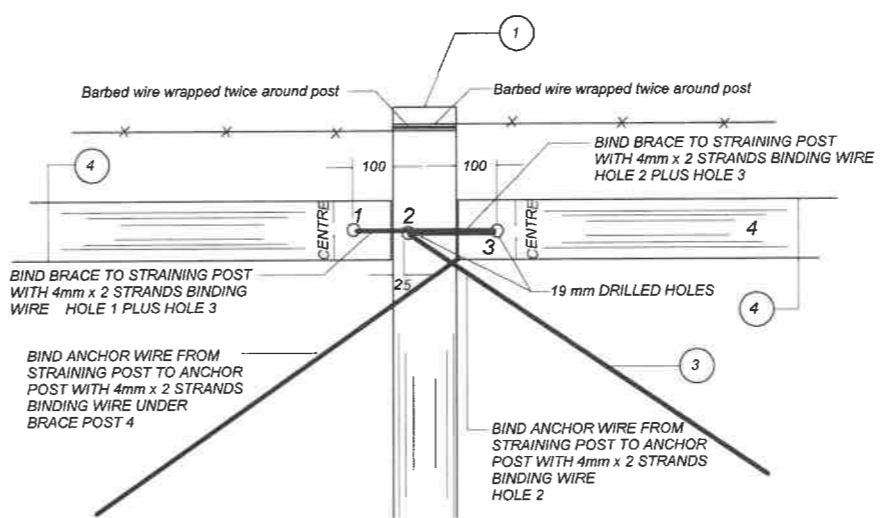
NOTES:

THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

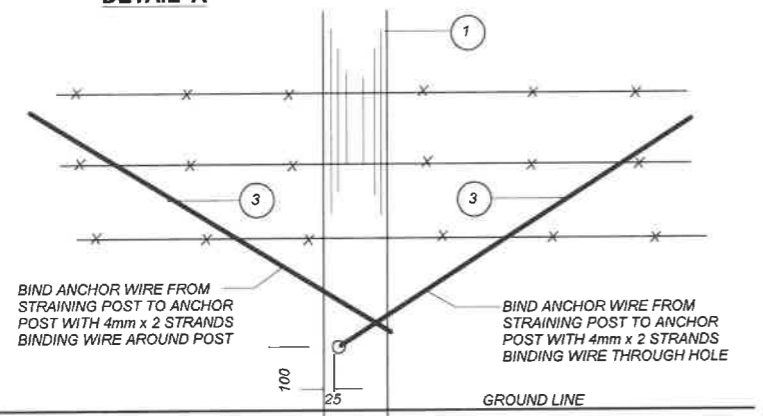
NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	STANDARD PLUNGE DIP (TIMBER)	SCALE NTS	INDEX NO. SCMM-02/23/07
					POND FENCE - 1	A3 ORIGINAL	PLAN NO. SHEET 7 OF 9
		APRIL 2022 (DATE APPROVED)					



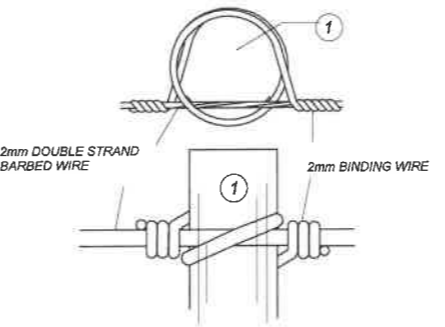
DETAIL A



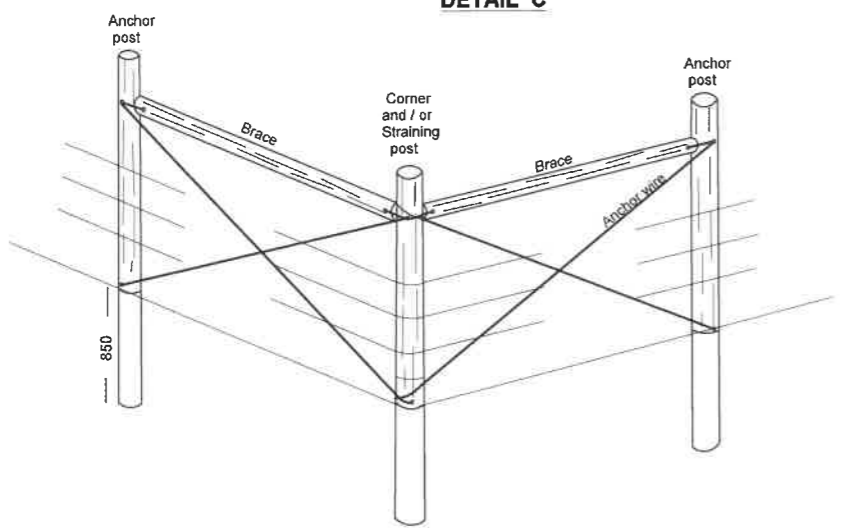
DETAIL B



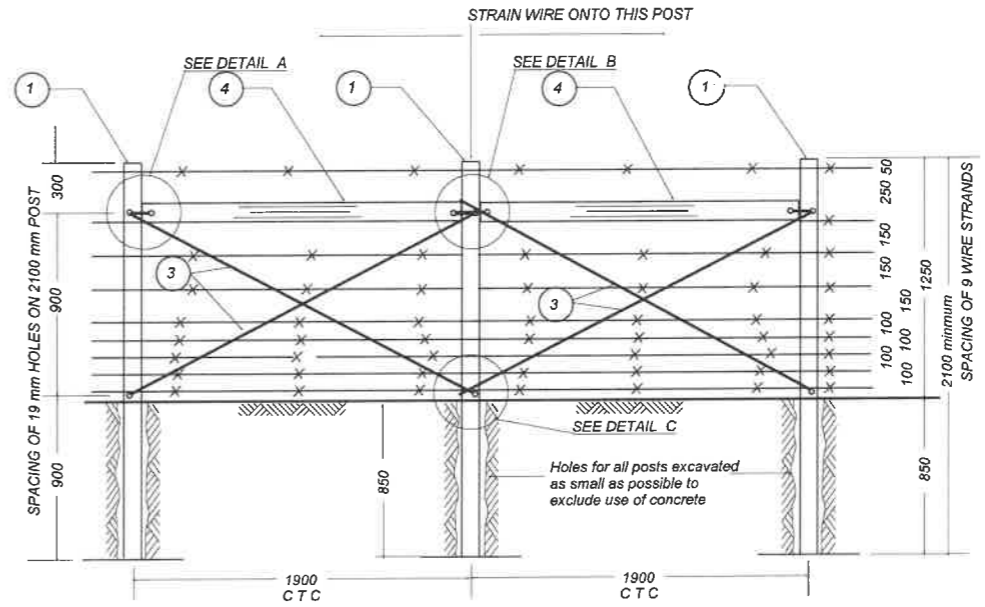
DETAIL C



DETAIL D



CORNER WITH BOX ANCHOR



CORNER AND / OR STRAINING POST with BOX ANCHOR (250m MAXIMUM SPACING)

LEGEND

1
125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST CORNER, STRAINING AND ANCHOR POSTS

3
4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE

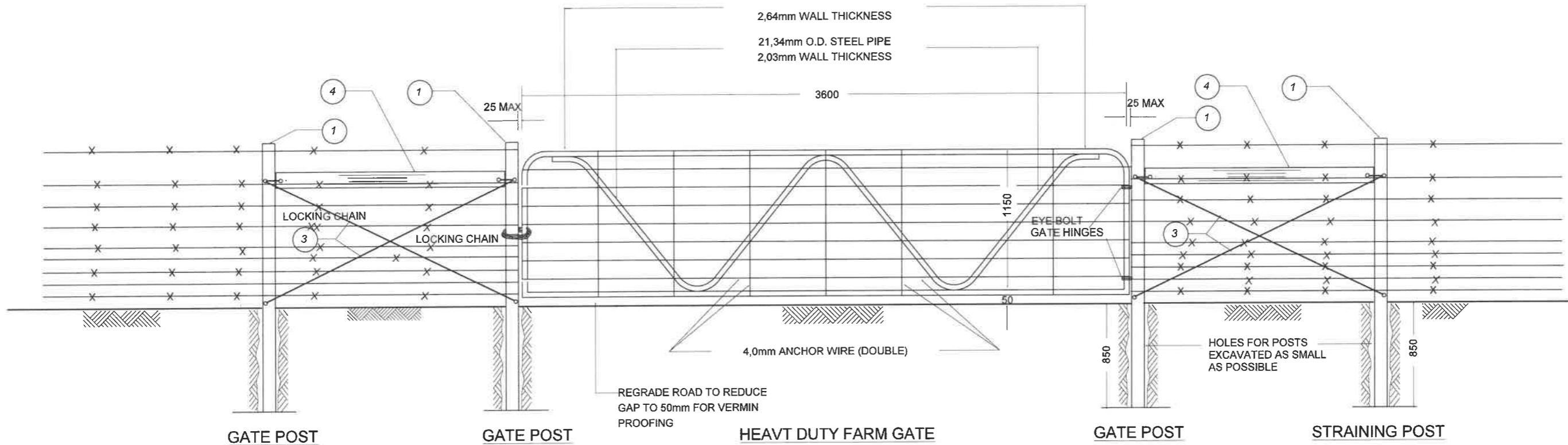
4
100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST BRACES IN BOX ANCHORS

NOTES:

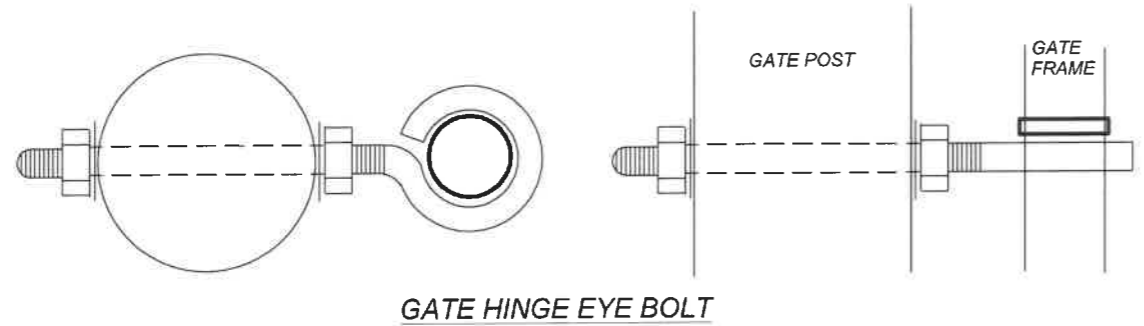
1. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

NGL NATURAL GROUND LEVEL

NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD PLUNGE DIP (TIMBER)	SCALE	INDEX NO.
					NTS	SCMM-02/23/08
					A3 ORIGINAL	PLAN NO.
					POND FENCE - 2	SHEET 8 OF 9
	APRIL 2022 (DATE APPROVED)		ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			



FARM GATES



LEGEND

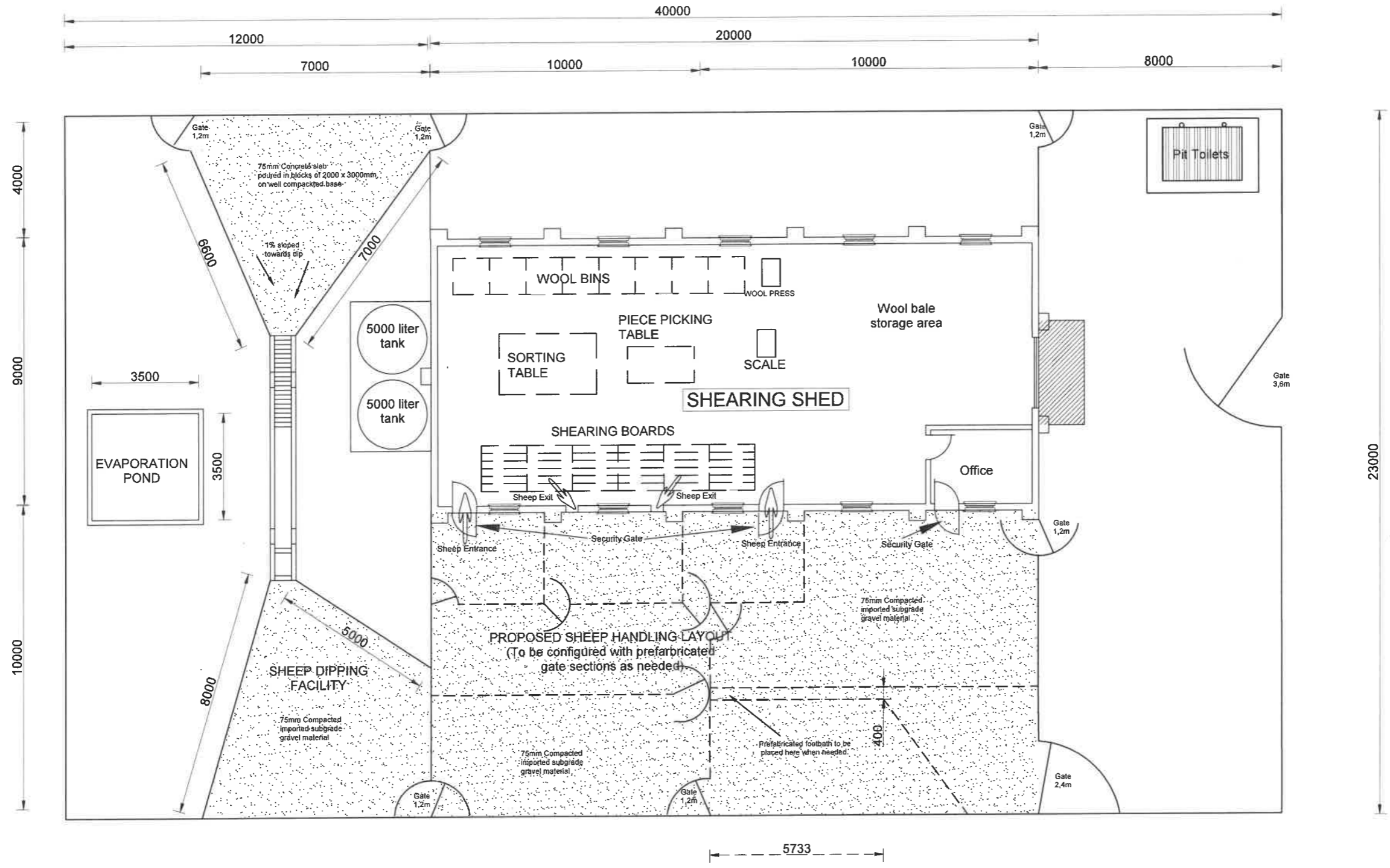
- ① 125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST CORNER, STRAINING, GATE AND ANCHOR POSTS
- ③ 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- ④ 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST BRACES IN BOX ANCHORS

NGL NATURAL GROUND LEVEL

NOTES:
THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD PLUNGE DIP (TIMBER)	SCALE NTS	INDEX NO. SCMM-02/23/09
				SITE LAYOUT PLAN	A3 ORIGINAL	PLAN NO. SHEET 9 OF 9
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			

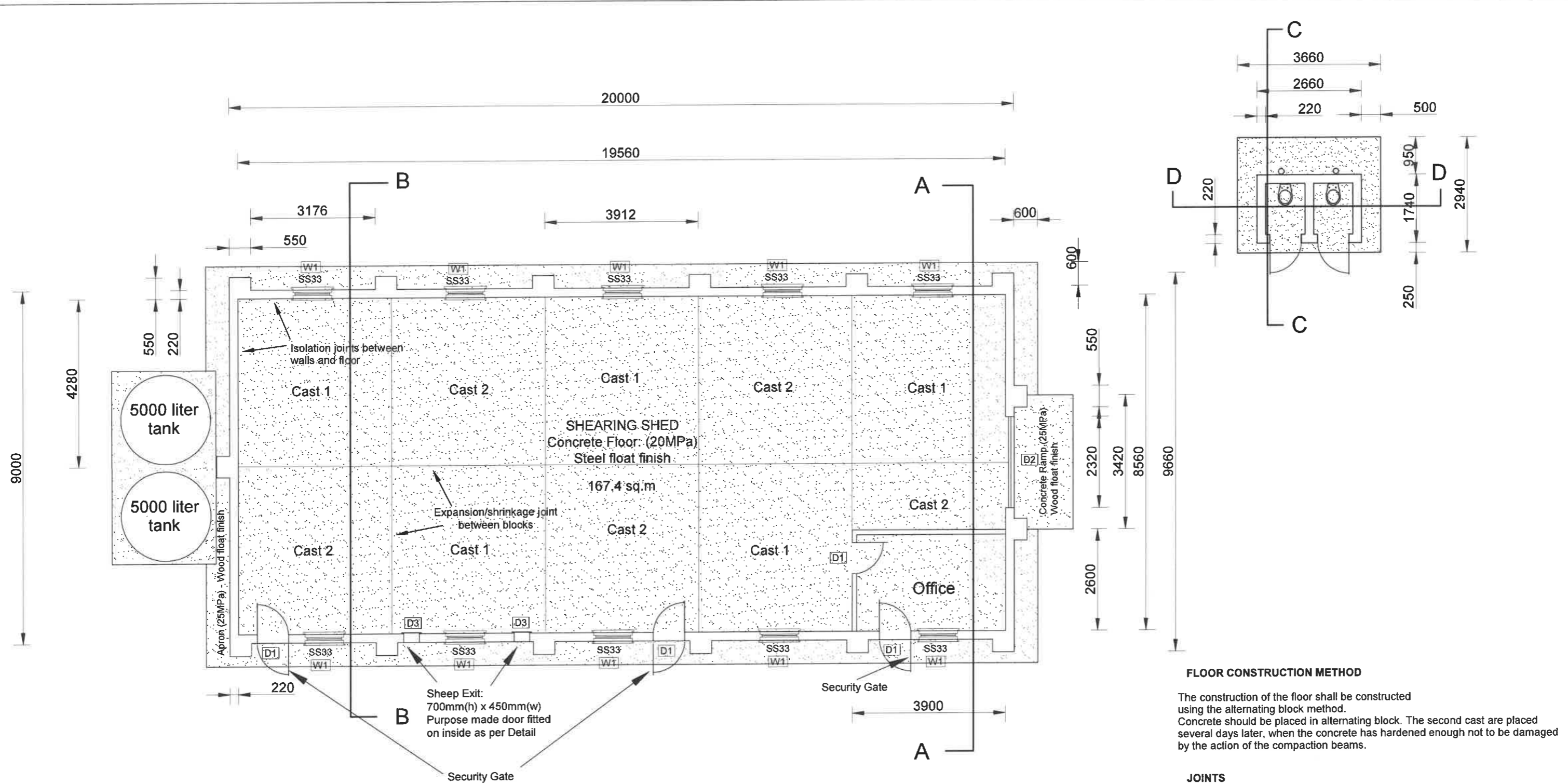
24 STANDARD SHEEP SHEARING SHED



SITE LAYOUT
SCALE 1:150

NB: IT IS IMPORTANT THAT THE ATTENTION IS GIVEN TO THE SLOPE OF THE SITE, THE DRAINING TOWARDS THE SITE, AND THE DRAINAGE OF RUN-OFF WATER ON SITE.

NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	SHEARING SHED	SCALE NTS	INDEX NO. SCMM-02/24/01
				SITE LAYOUT PLAN	A3 ORIGINAL	PLAN NO. SHEET 1 OF 12
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			



FLOOR PLAN
SCALE 1:100 ON A3

FLOOR CONSTRUCTION METHOD

The construction of the floor shall be constructed using the alternating block method. Concrete should be placed in alternating block. The second cast are placed several days later, when the concrete has hardened enough not to be damaged by the action of the compaction beams.

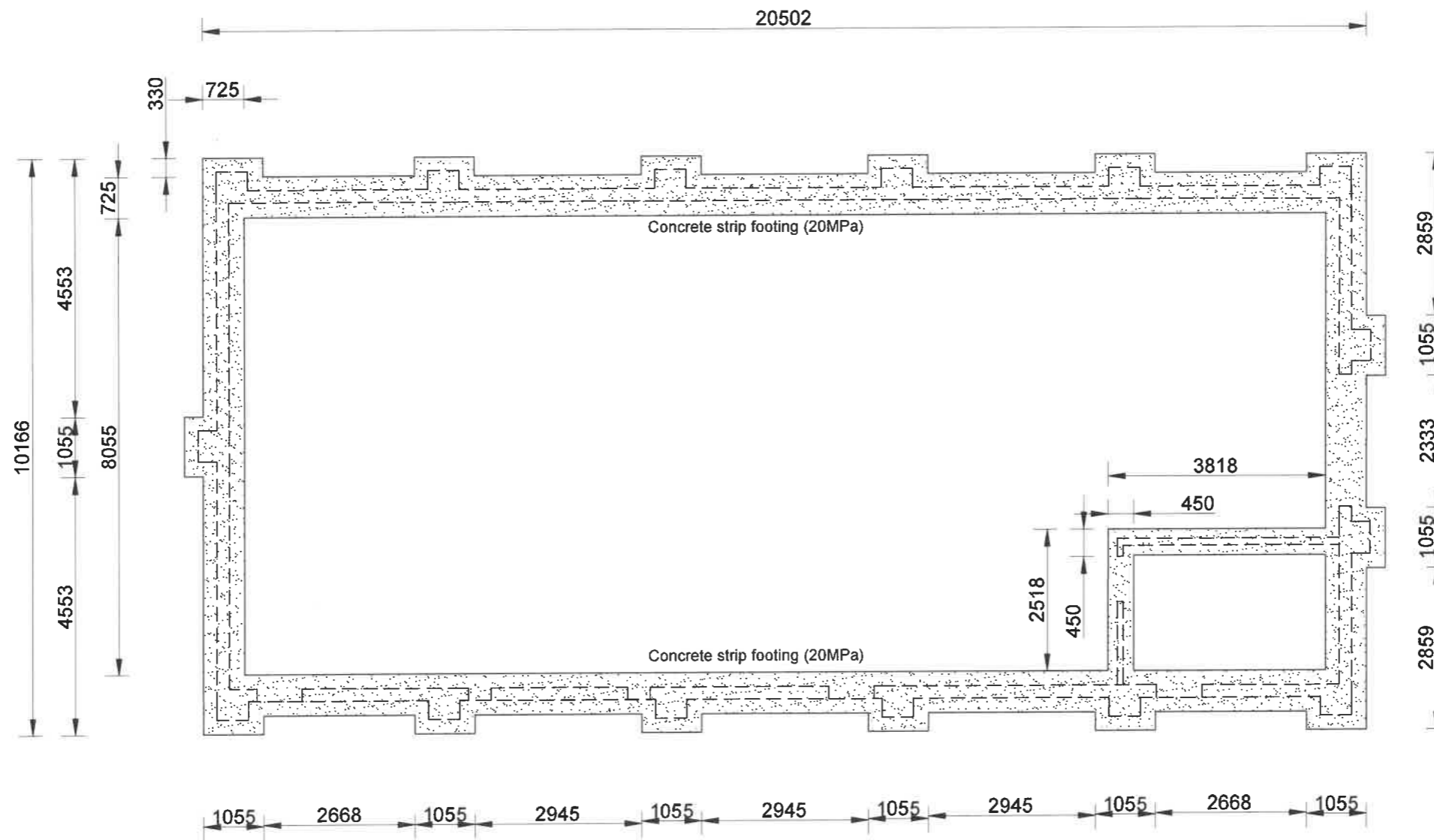
JOINTS

Joints should be aligned as shown on the Floor Plan. Isolation joints shall be placed at all connections between the slab and the walls and also between the slabs of different casts. Transversed sawn-tied joints shall be cut at the positions shown on the drawing. Initial sawcut shall be 3 mm wide at a depth of d/4. Top section of the sawcut shall be reamed to a minimum width of 10 mm and depth of 0.5 * d/4. Section of joints that shall be sealed with sealant must be cleaned from all loose material and dust before sealant is placed.

SEALANT

Field moulded sealant shall be used to form the sealant for the joints. Thermosetting, chemically sealant shall be used for all joints.

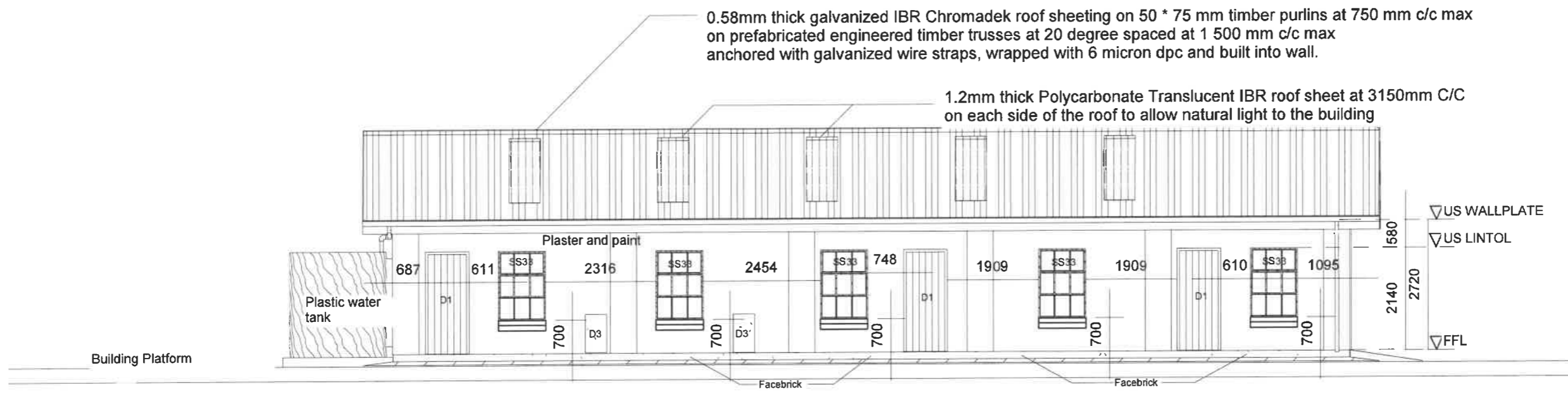
NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	SHEARING SHED	SCALE	INDEX NO.
					FLOOR PLAN	NTS	SCMM-02/24/02
		APRIL 2022 (DATE APPROVED)				A3 ORIGINAL	PLAN NO. SHEET 2 OF 12



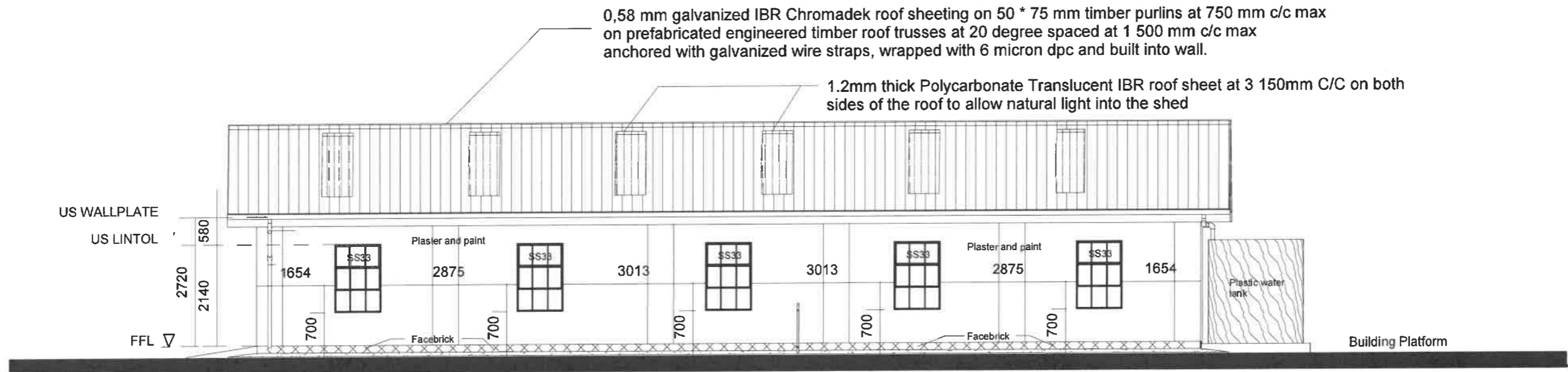
FOUNDATION PLAN

SCALE 1:100 ON A3

NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	SHEARING SHED	SCALE NTS	INDEX NO. SCMM-02/24/03
					FOUNDATION LAYOUT	A3 ORIGINAL	PLAN NO. SHEET 3 OF 12
		APRIL 2022 (DATE APPROVED)					



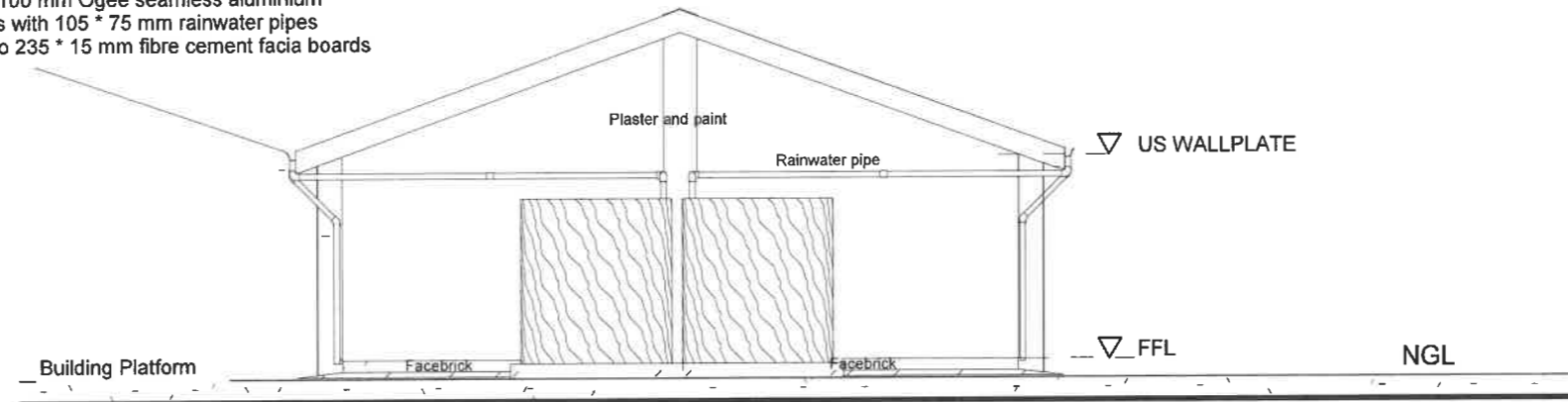
NORTH ELEVATION
SCALE 1:100 on (A3)



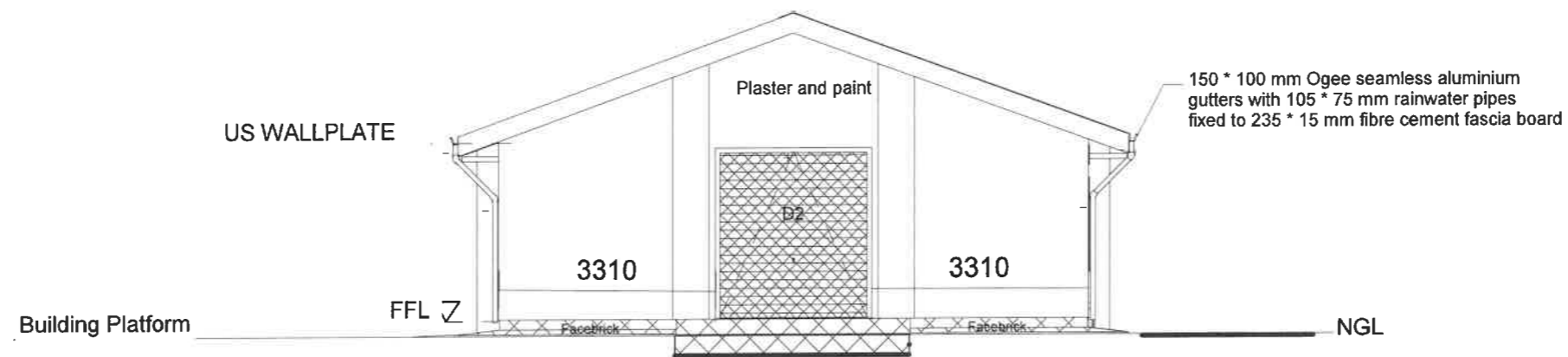
SOUTH ELEVATION
SCALE 1:100 on (A3)

NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	SHEARING SHED		SCALE	INDEX NO.
				ELEVATIONS: NORTH & SOUTH		NTS	SCMM-02/24/04
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			A3 ORIGINAL	PLAN NO. SHEET 4 OF 12

150 * 100 mm Ogee seamless aluminium gutters with 105 * 75 mm rainwater pipes fixed to 235 * 15 mm fibre cement fascia boards

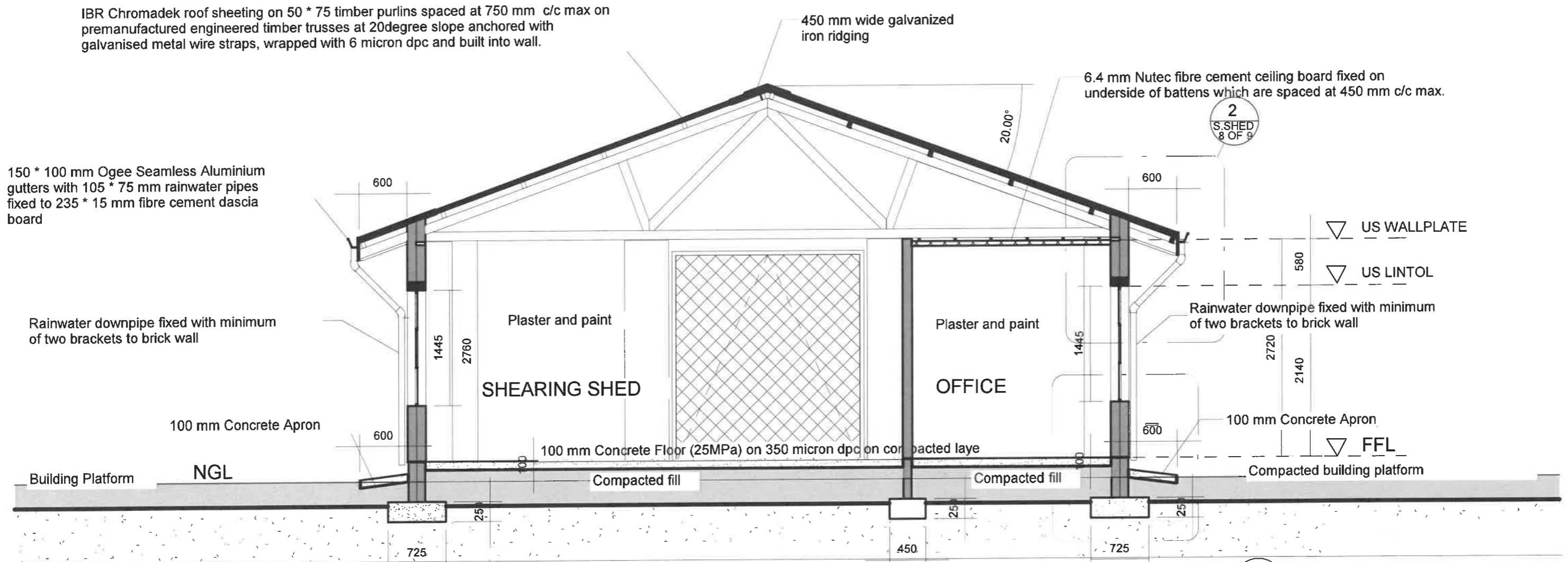


EAST ELEVATION
SCALE 1:100 on (A3)



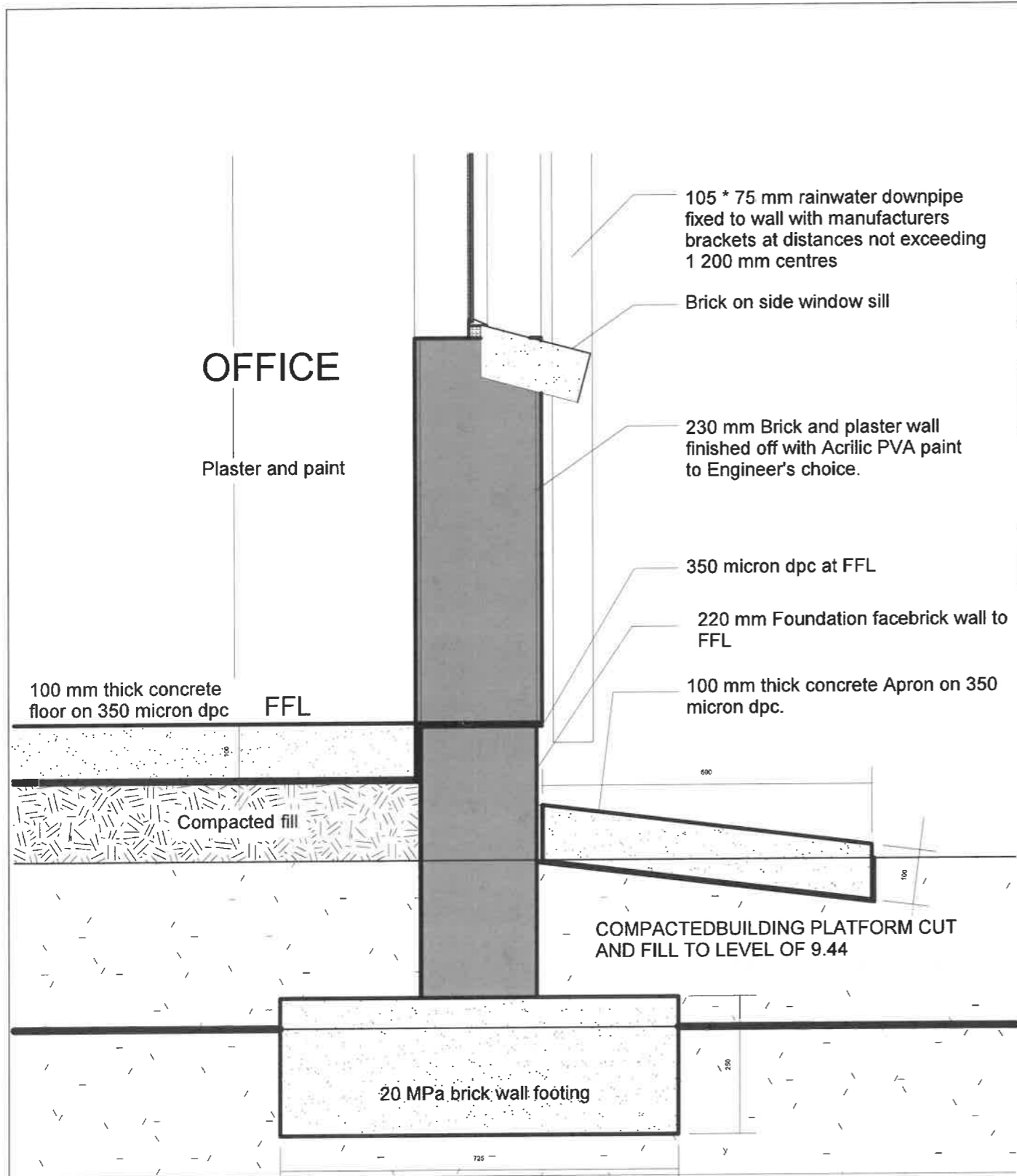
WEST ELEVATION
SCALE 1:100 on (A3)

NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	SHEARING SHED	SCALE	INDEX NO.		
					NTS	SCMM-02/24/05		
					APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	ELEVATIONS: EAST & WEST	PLAN NO.
							A3 ORIGINAL	SHEET 5 OF 12

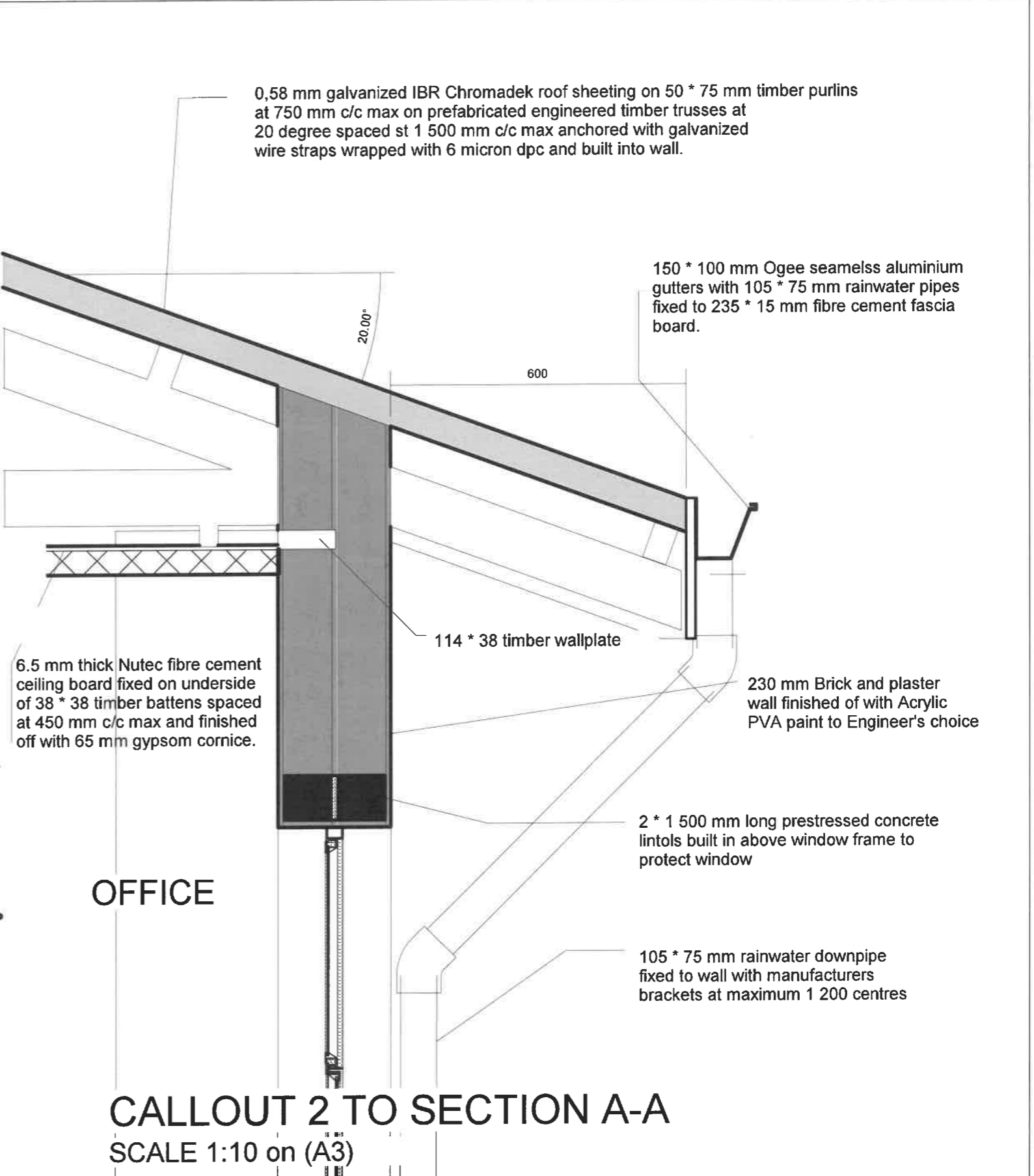


SECTION A - A
SCALE 1: 50 on (A3)

NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER) APRIL 2022 (DATE APPROVED)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	SHEARING SHED	SCALE	INDEX NO.		
						NTS	SCMM-02/24/06	
						SECTION A-A	A3 ORIGINAL	PLAN NO.
								SHEET 6 OF 12



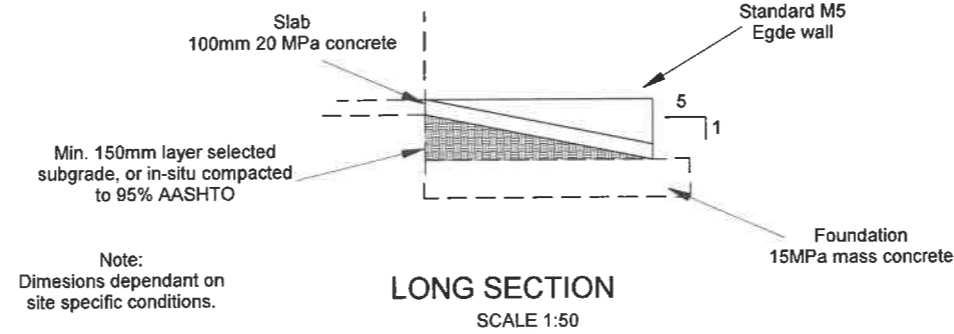
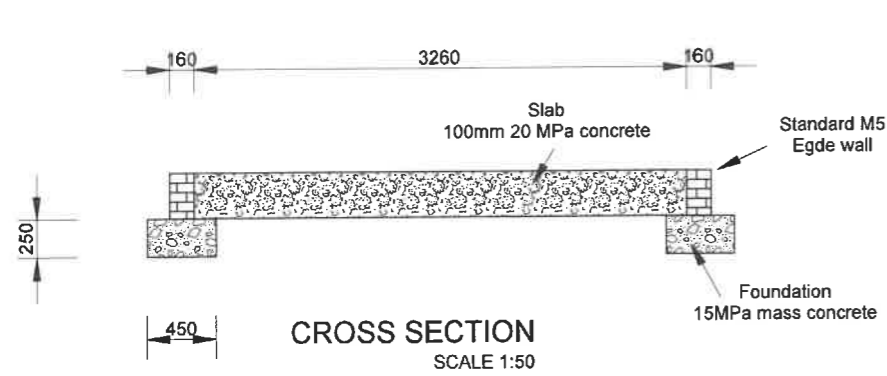
CALLOUT 1 TO SECTION A-A
SCALE 1:10 on (A3)



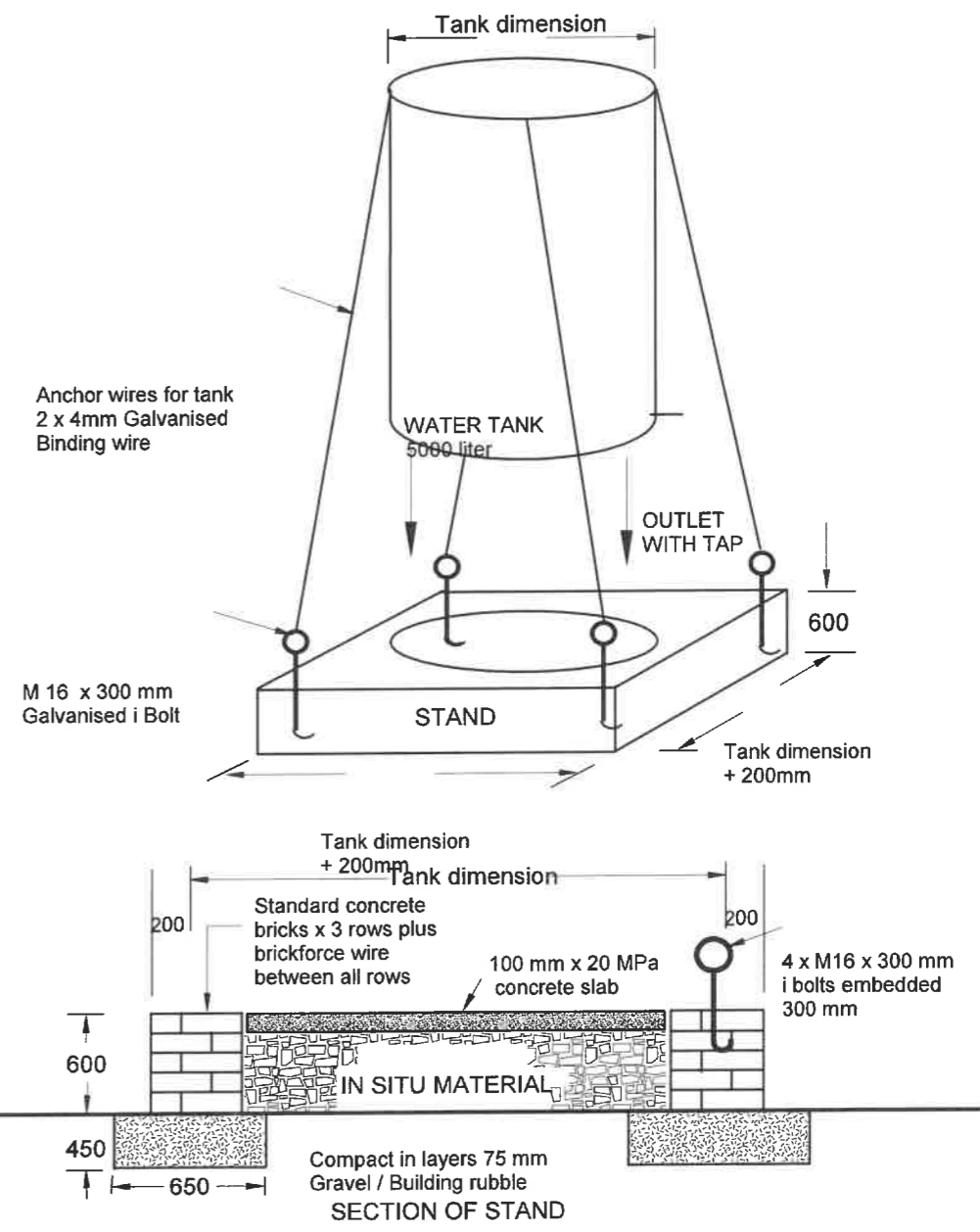
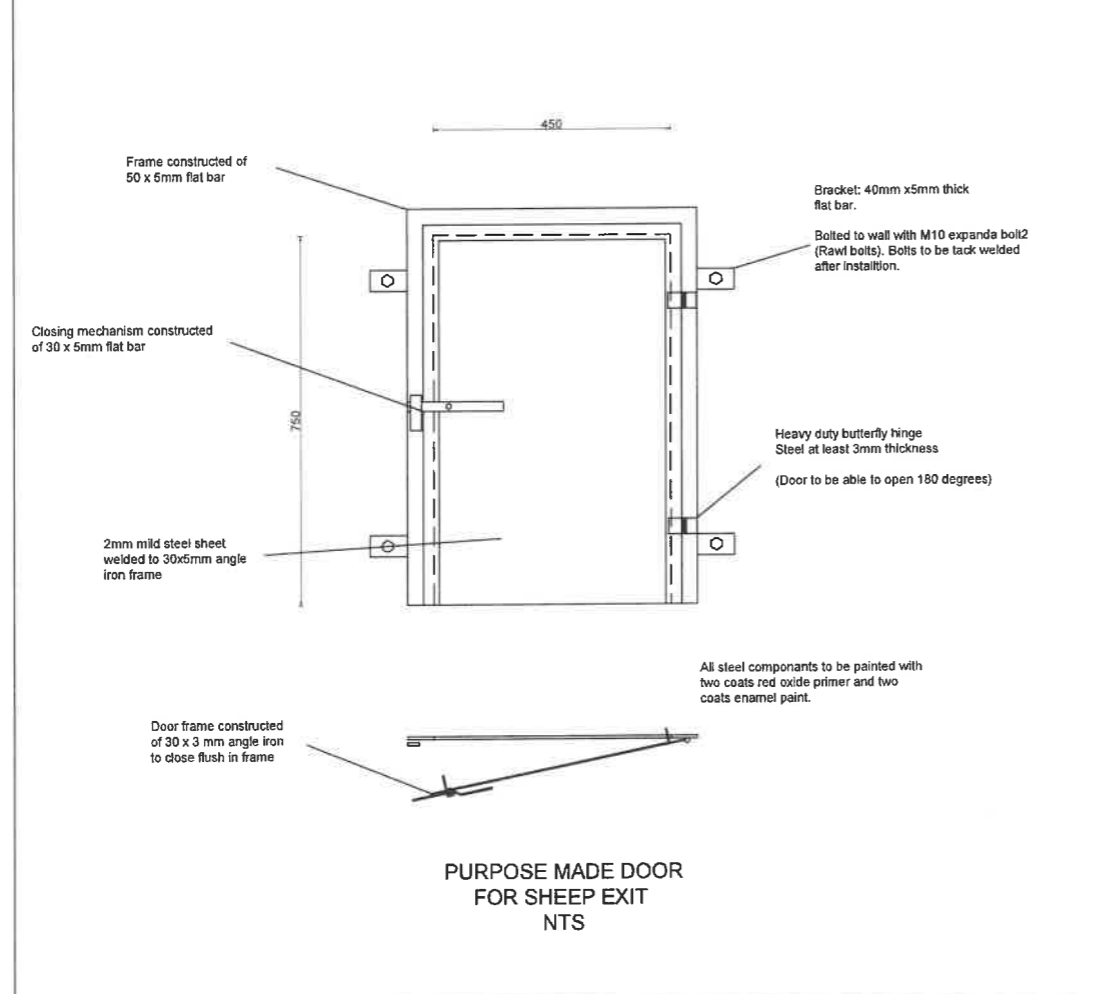
CALLOUT 2 TO SECTION A-A
SCALE 1:10 on (A3)

NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	SHEARING SHED	SCALE	INDEX NO.
					NTS	SCMM-02/24/07
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	CALLOUTS	A3 ORIGINAL	PLAN NO. SHEET 7 OF 12

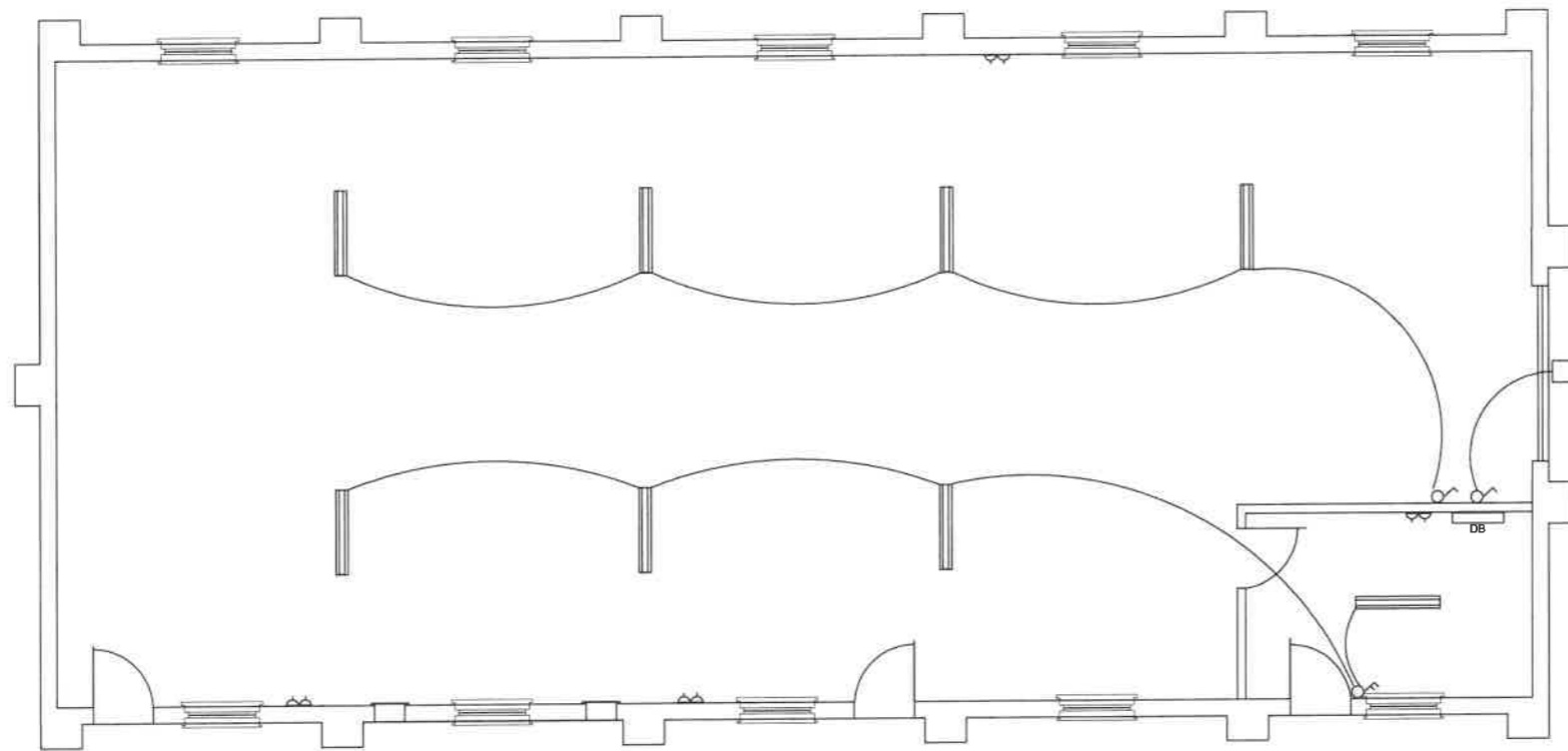
DETAIL OF CONCRETE RAMP



DETAIL OF DOOR TYPE D3



NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER) DECEMBER 2020 (DATE APPROVED)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	SHEARING SHED	SCALE	INDEX NO.
					NTS	SCMM-02/24/08
					A3 ORIGINAL	PLAN NO.
						SHEET 8 OF 12
					DETAILS	



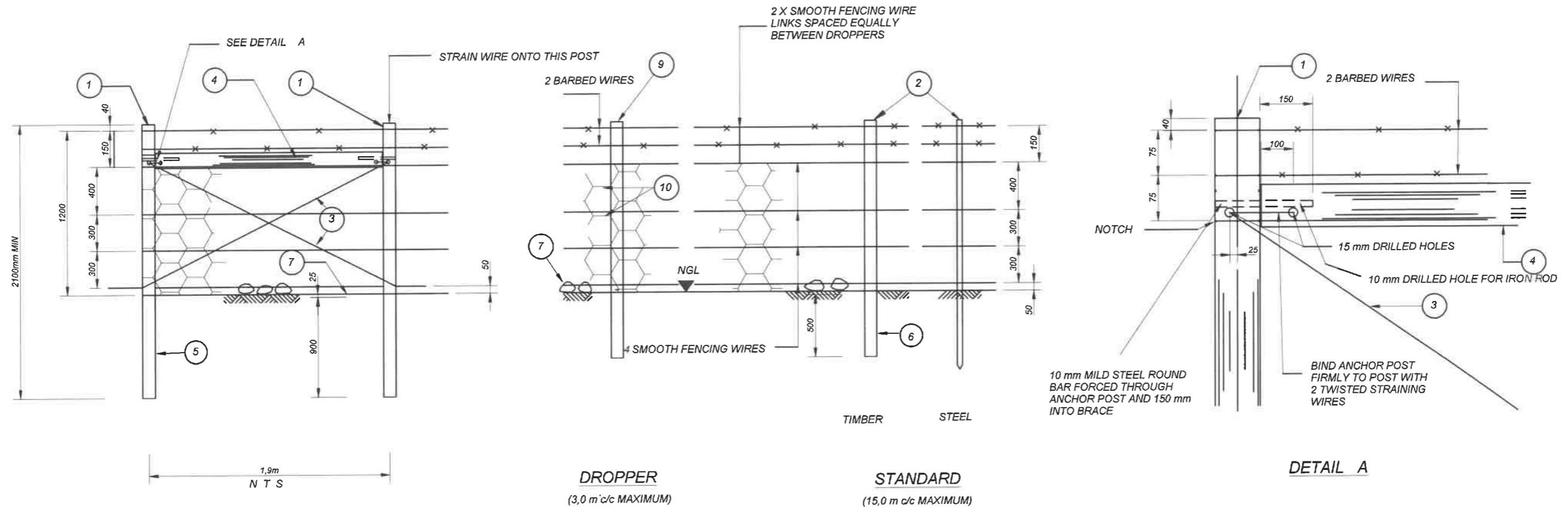
LEGEND

	Distribution Board
	Electrical equipment Socket Double
	Electrical equipment Switch Double
	Electrical equipment Switch Single
	Light fixture Luminary with cover Double Fluorescent 2 x 58 Watt
	Light fixture Area Floodlight 100W LED

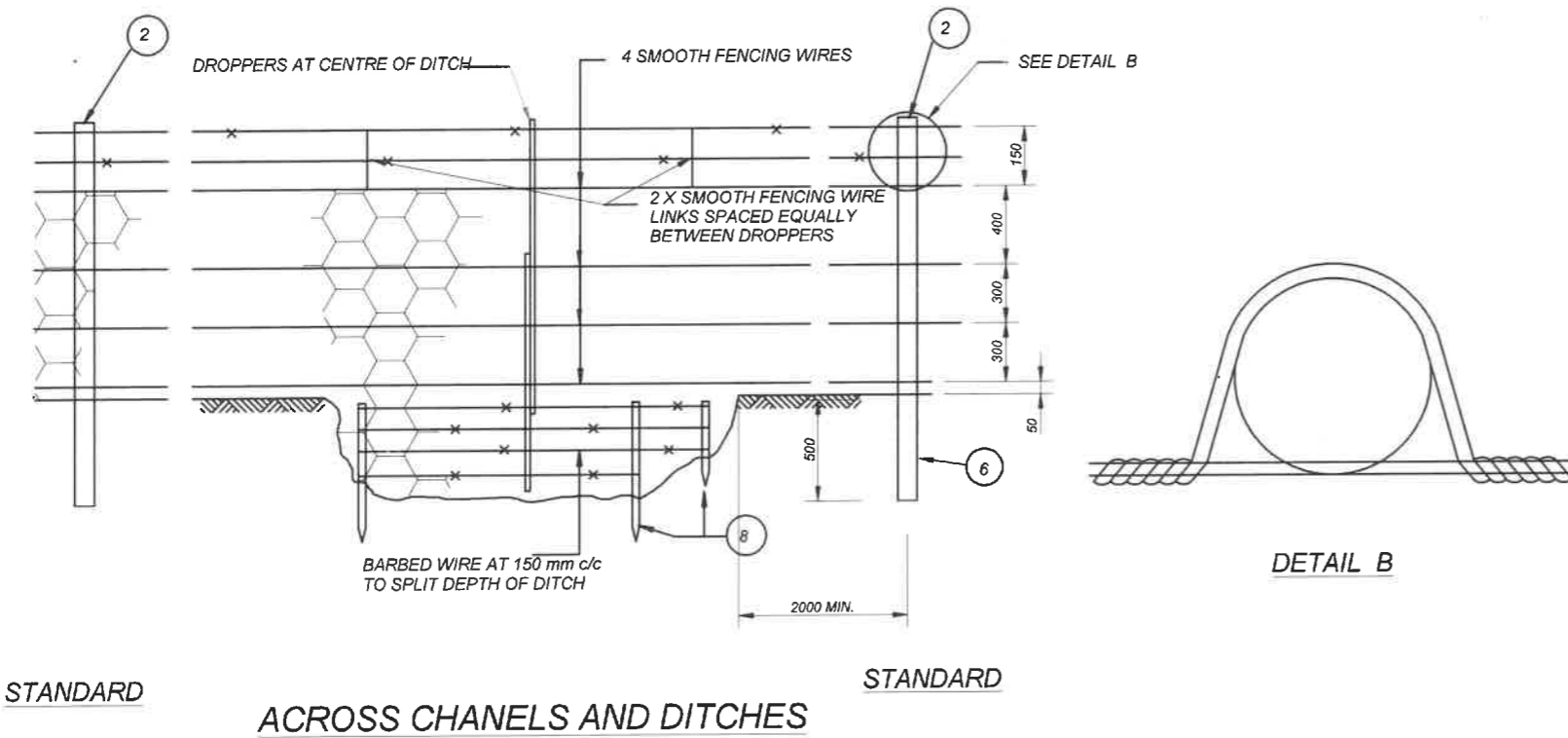
ELECTRICAL LAYOUT PLAN

SCALE 1:100 ON A3

NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER) APRIL 2022 (DATE APPROVED)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	SHEARING SHED	SCALE	INDEX NO.
				NTS	SCMM-02/24/09	
				A3 ORIGINAL	PLAN NO.	
				ELECTRICAL LAYOUT	SHEET 9 OF 12	



GENERAL DETAILS OF FENCING



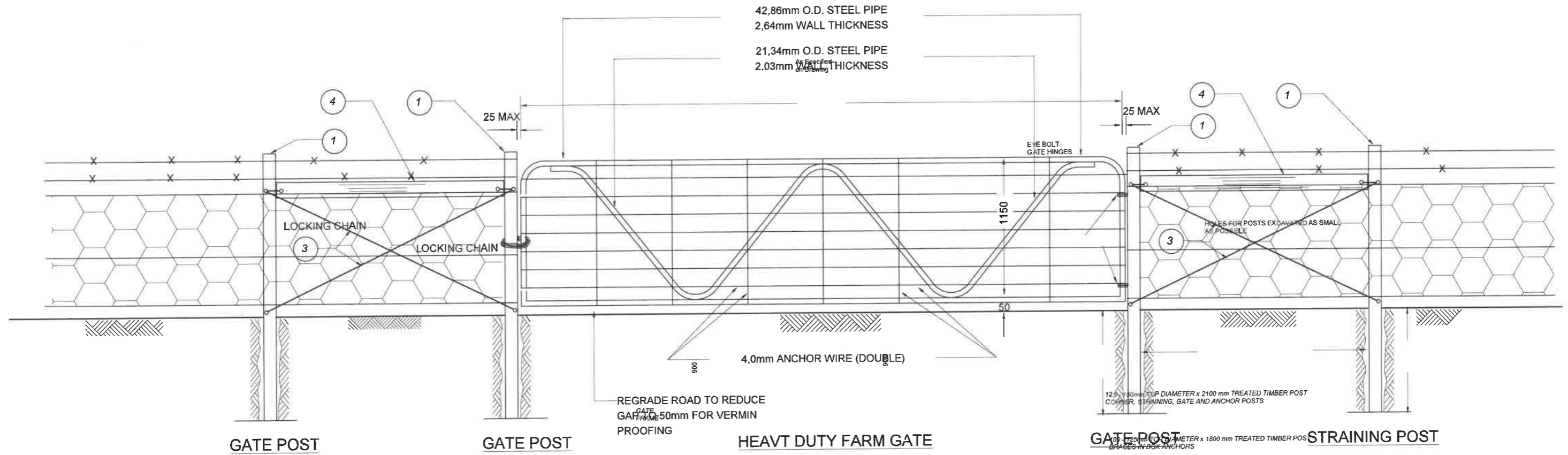
LEGEND

- 1 — 125 - 150 mm TOP DIAMETER TREATED TIMBER POLE 2100 mm LONG
- 2 — 100 - 125 mm TOP DIAMETER TREATED TIMBER POLE 1850 mm LONG OR 2,5 kg/m Y STEEL STANDARD
- 3 — DOUBLE TWISTED 4 mm ANCHOR WIRE STRAPS
- 4 — ANCHOR POST. 100 - 125 mm TOP DIAMETER TREATED TIMBER POLE APPROX. A850 mm LONG SEE DETAIL A
- 5 — CORNER AND STRAINING POSTS PLACED IN WELL COMPACTED IN-SITO MATERIAL
- 6 — LINE POSTS AT 3m SPACING, PLACED IN WELL COMPACTED SOIL.
- 7 — NATURAL GROUND LEVEL AT FOOT OF FENCE TO BE PACKED WITH STONE
- 8 — STAKES (DROPPER PROFILE) OF SUITABLE LENGTH DRIVEN INTO SIDES & BED OF TRENCH AT APPROVED SPACINGS AND TIED TO AT LEAST TWO FENCE WIRES. STAKES TO BE ALIGNED WITH & TIED TO DROPPERS WITH WIRE WHERE REQUIRED.
- 9 — LINE POSTS AT 3m SPACING, PLACED IN WELL COMPACTED SOIL.
- 10 — 75 mm HEXAGONAL WIRE NETTING OF 1,8 mm DIAMETER GALVANIZED MILD STEEL 1200 mm WIDE

NGL NATURAL GROUND LEVEL

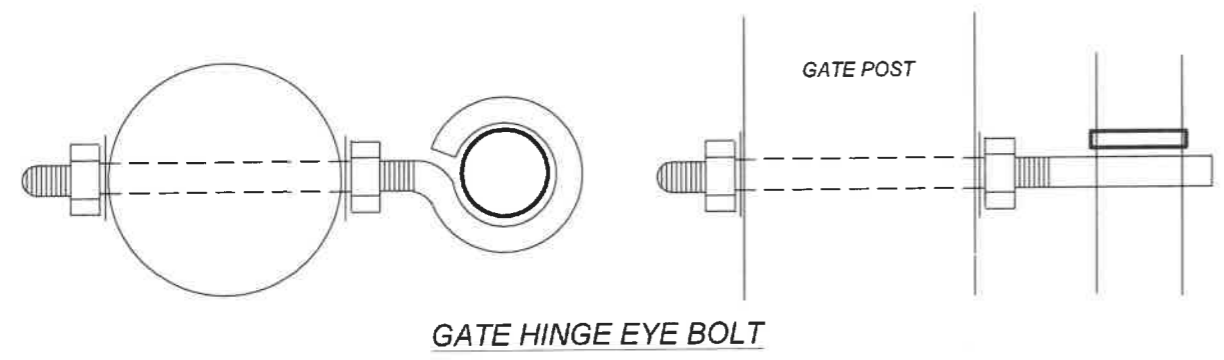
NOTES: 1. NOTCHES REQUIRED FOR CORNER POSTS, STRAINING POSTS, STANDARDS AND DROPPERS
 2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER) APRIL 2022 (DATE APPROVED)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	SHEARING SHED FENCE	SCALE	INDEX NO.
					NTS	SCMM-02/24/10
				FENCE	A3 ORIGINAL	PLAN NO.
					SHEET 10 OF 12	



FARM GATES

2. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES



LEGEND

1 ———

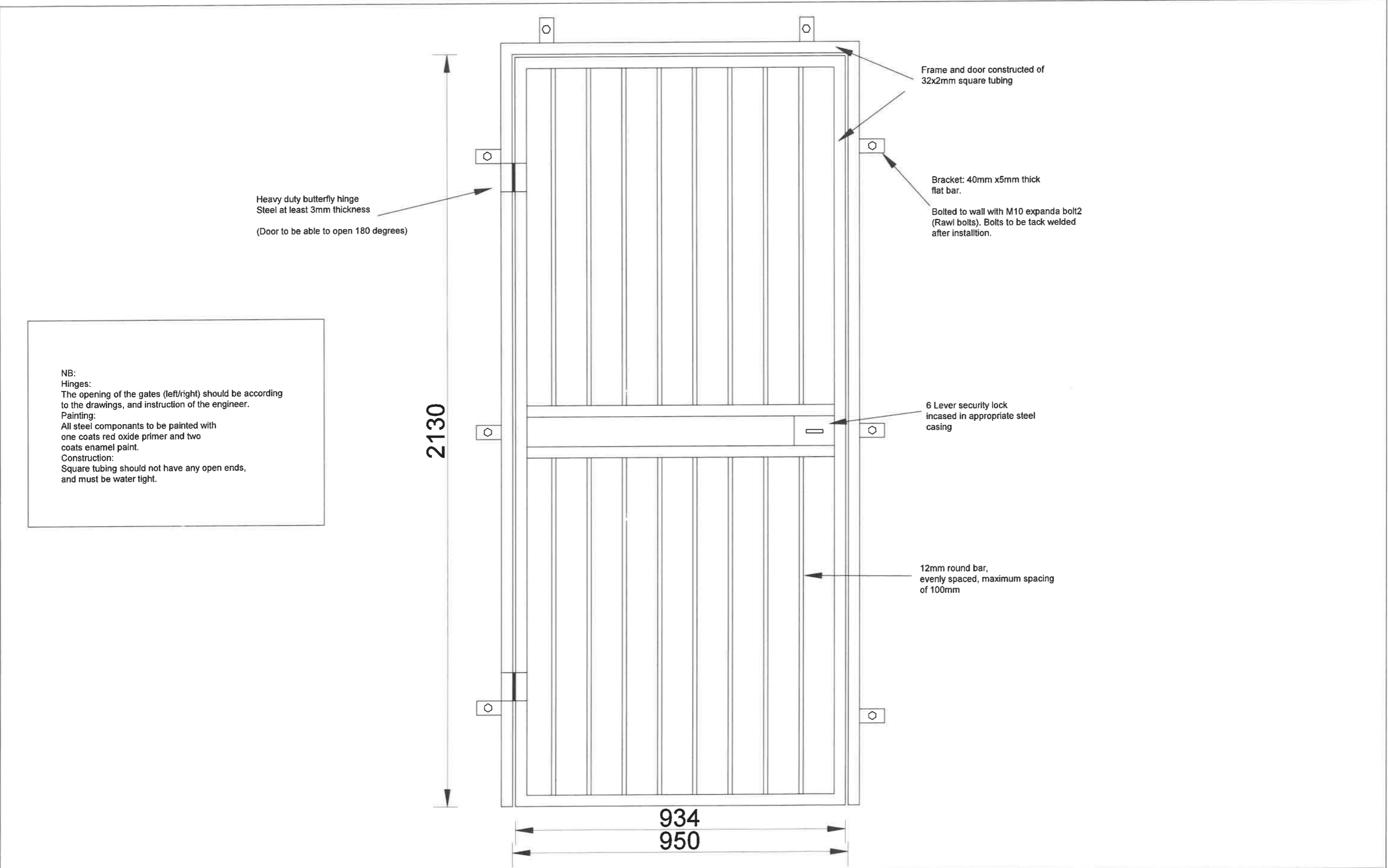
3 ——— 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE

4 ———

NGL NATURAL GROUND LEVEL

NOTES: 1. 40 mm STAPLES REQUIRED FOR CORNER POSTS and STRAINING POSTS

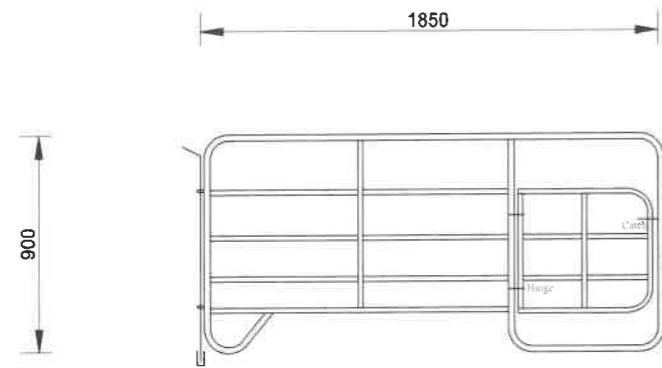
NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER) APRIL 2022 (DATE APPROVED)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	SCALE NTS	INDEX NO. SCMM-02/24/11
			DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	SCALE A3 ORIGINAL	INDEX NO. SHEET 11 OF 12
			DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	SCALE NTS	INDEX NO. SCMM-02/24/11
			DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	SCALE A3 ORIGINAL	INDEX NO. SHEET 11 OF 12



NB:
 Hinges:
 The opening of the gates (left/right) should be according to the drawings, and instruction of the engineer.
 Painting:
 All steel componants to be painted with one coats red oxide primer and two coats enamel paint.
 Construction:
 Square tubing should not have any open ends, and must be water tight.

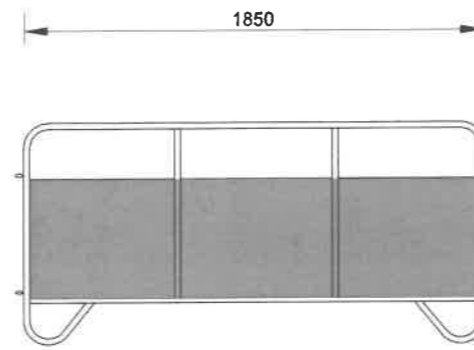
NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	SHEARING SHED		SCALE	INDEX NO.
				SECURITY GATE		NTS	SCMM-02/24/12
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			A3 ORIGINAL	PLAN NO. SHEET 12 OF 12

25 PRE-FABRICATED SHEEP HANDLING FACILITIES



GATE SECTION 1 (GS1)

Premanufactured sheep gate
(Taltec TSK 3 or similar)

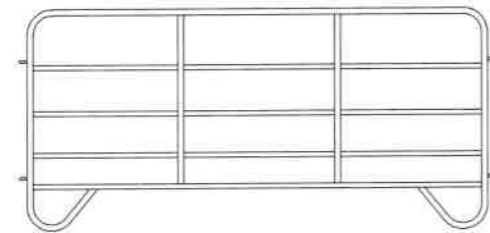


GATE SECTION 4 (GS4)

Premanufactured sheep Crush section
(Taltec TSK 2 or similar)

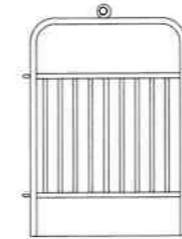


Premanufactured Arch Frame



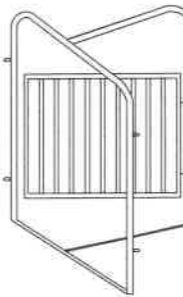
GATE SECTION 2 (GS2)

Premanufactured sheep gate
(Taltec TSK 1 or similar)



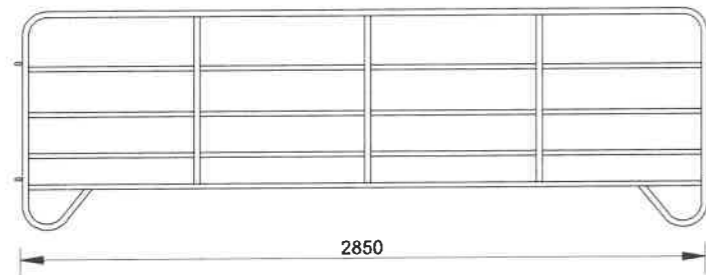
GATE SECTION 5 (GS5)

Premanufactured Guillotine gate
(Taltec TSK 4 or similar)



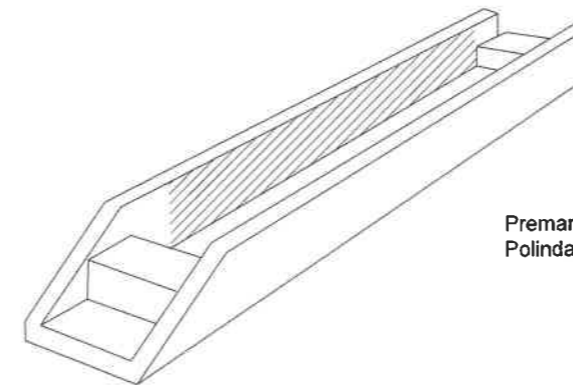
GATE SECTION 7 (GS7)

Premanufactured Sorting gate
(Taltec TSK 5 or similar)



GATE SECTION 3 (GS3)

Premanufactured sheep gate
(Taltec TSK 1 or similar)



PREFABRICATED FOOT BATH

Premanufactured Sheep foot bath
Polindale or similar approved.

NO.	SPECIAL NOTES:

JPJ KOCH
(CHIEF ENGINEER)

APRIL 2022
(DATE APPROVED)

**DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM
PROVINCE OF THE EASTERN CAPE**

ENGINEERING SERVICES
PRIVATE BAG X015
DOHNE ADI
STUTTERHEIM
4930

**PRE-FABRICATED SHEEP
GATE SECTIONS**

SCALE
NTS

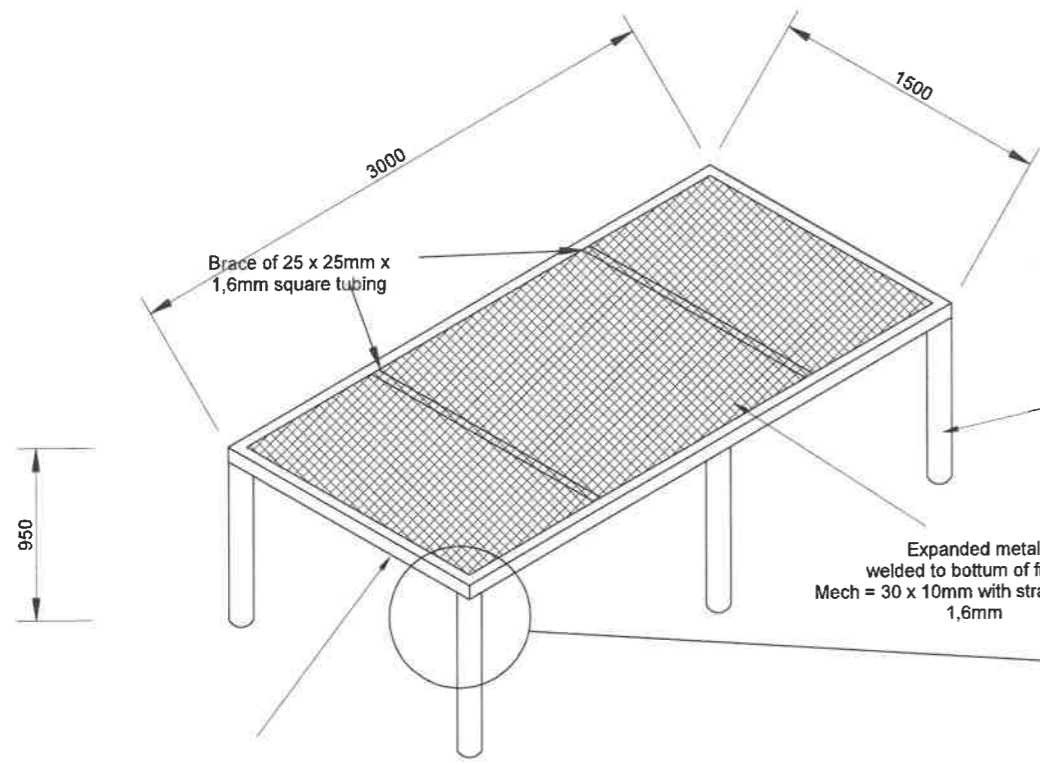
A3 ORIGINAL

INDEX NO.
SCMM-02/25/01

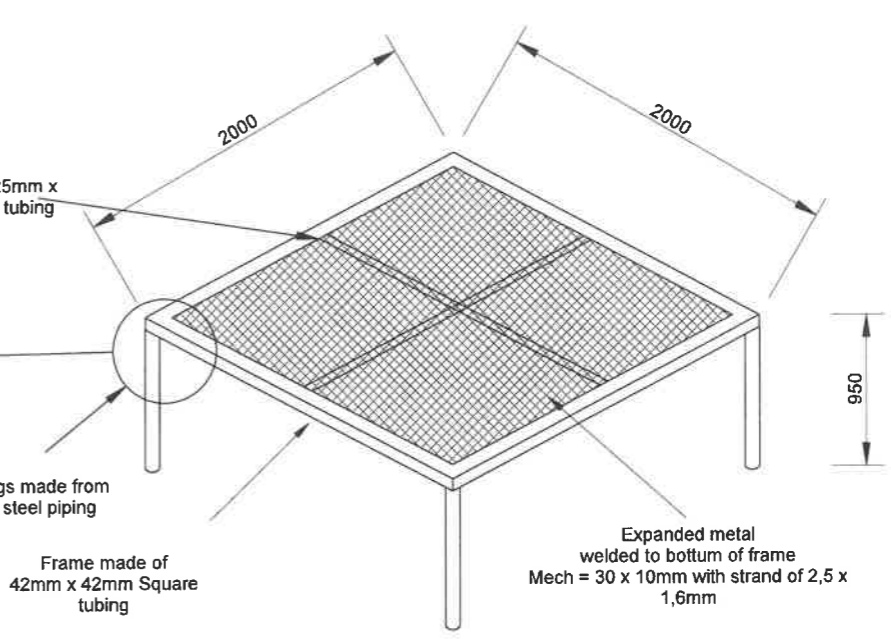
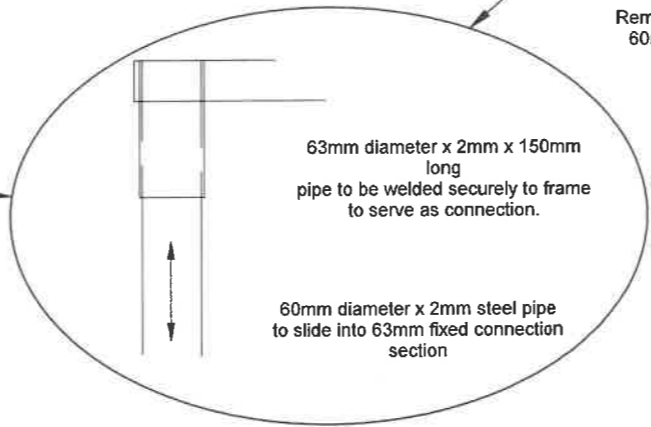
PLAN NO.
SHEET 1 OF 1

26 SHEEP SHEARING EQUIPMENT

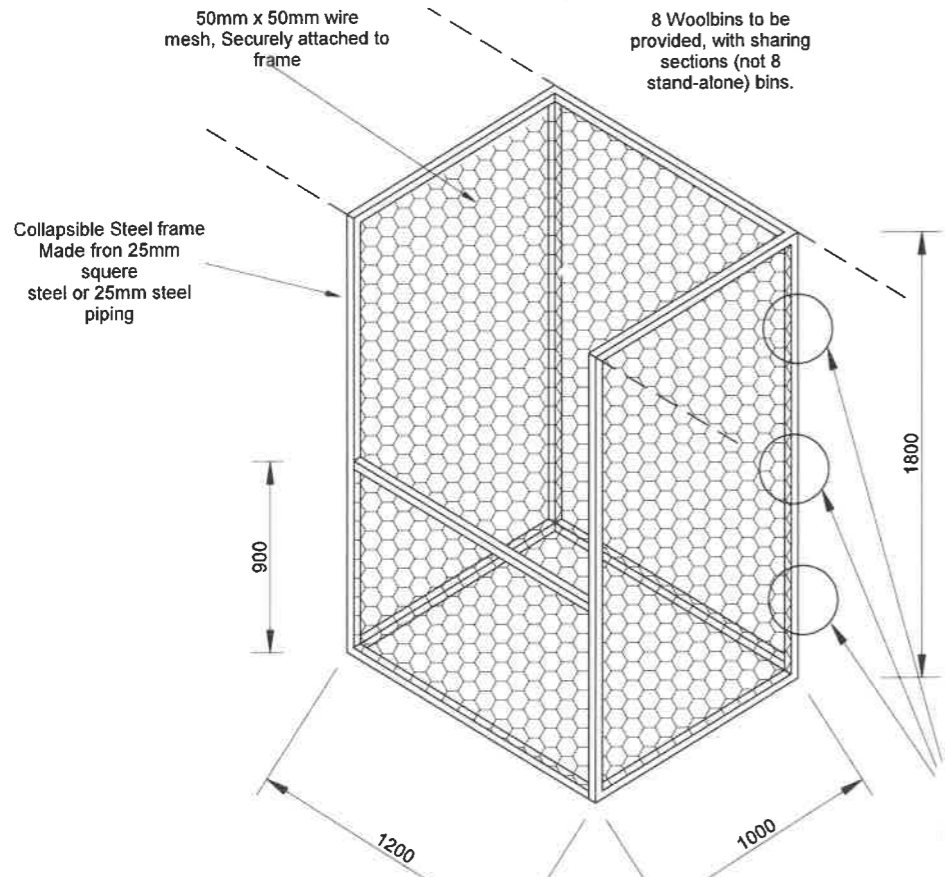
DETAILS OF SHEARING EQUIPMENT



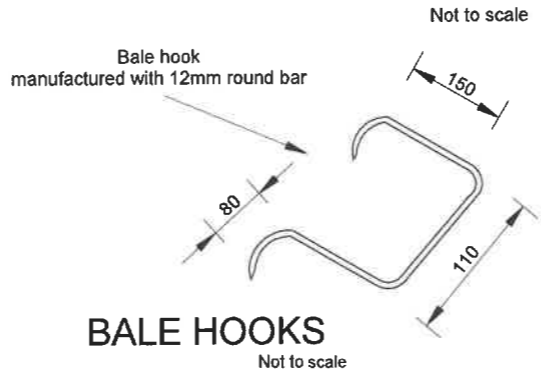
WOOL SORTING TABLE
Not to scale



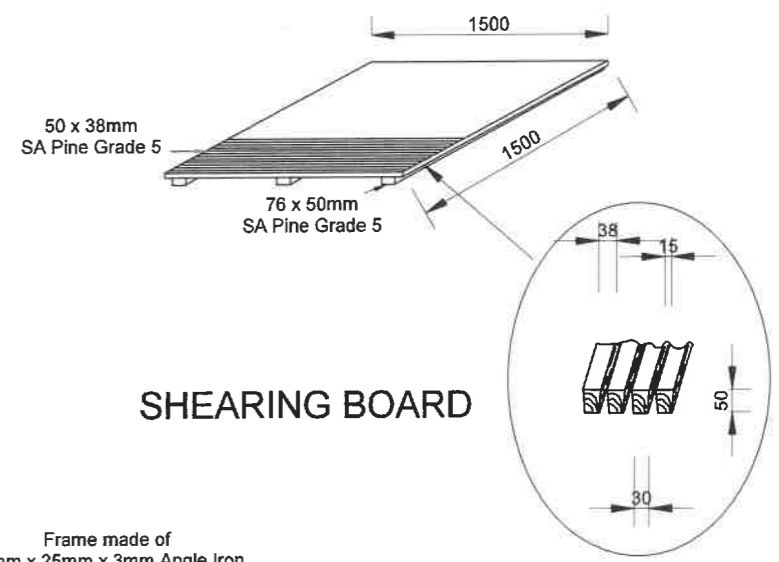
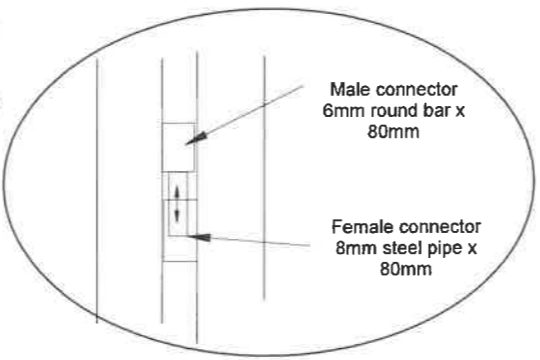
PIECE PICKING TABLE
Not to scale



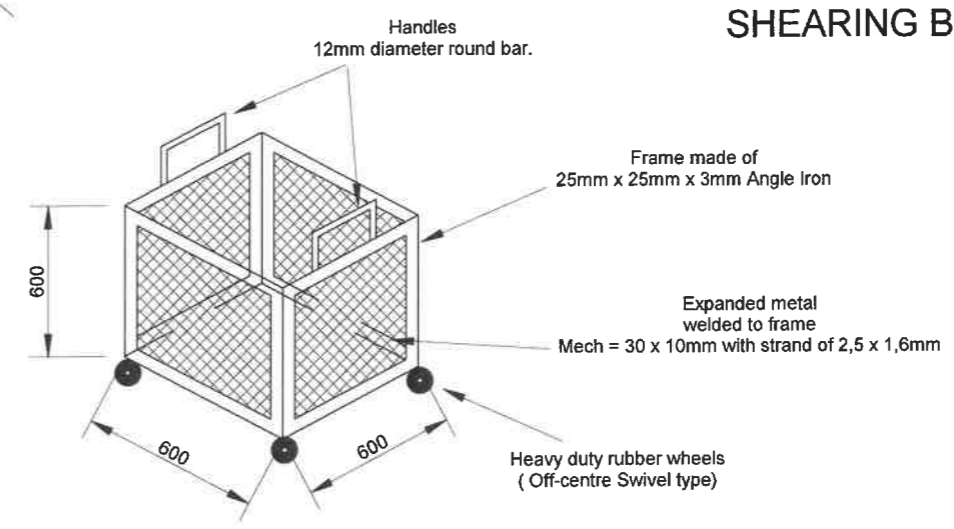
WOOL BIN
Not to scale



BALE HOOKS
Not to scale



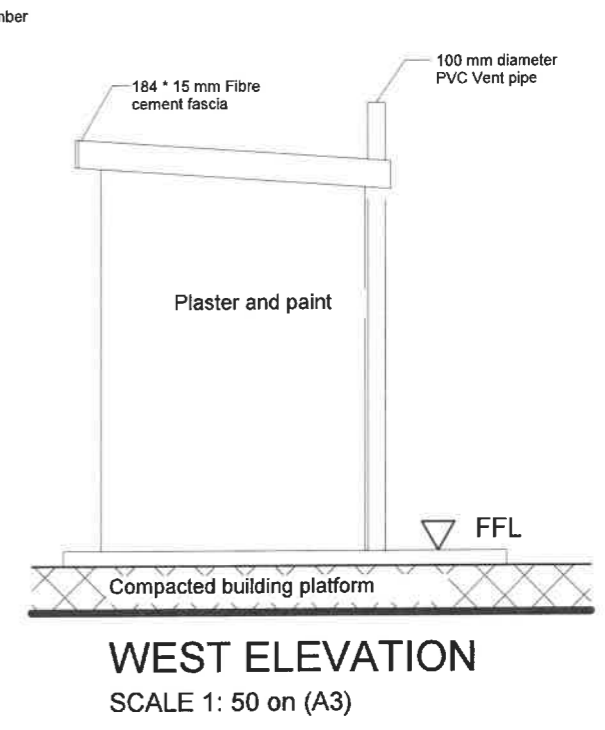
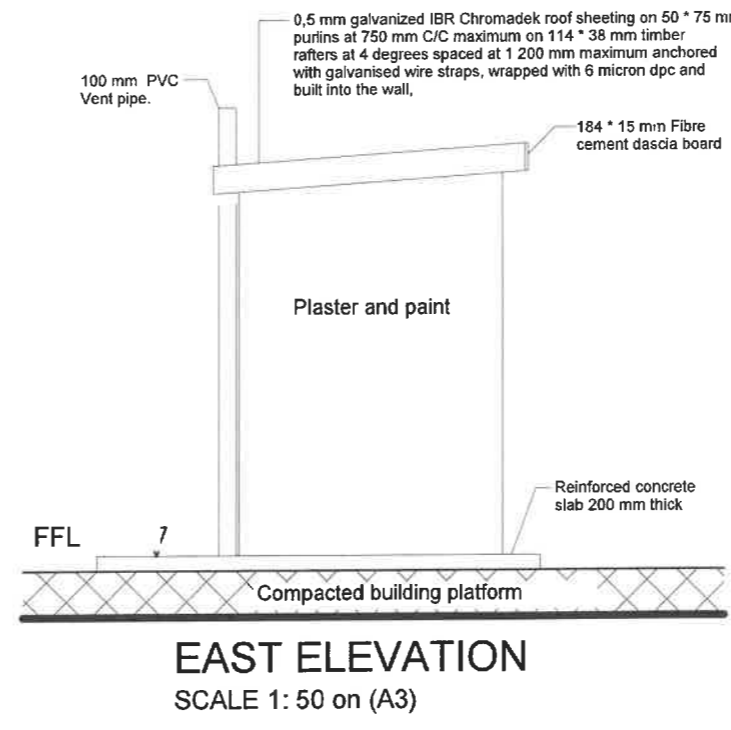
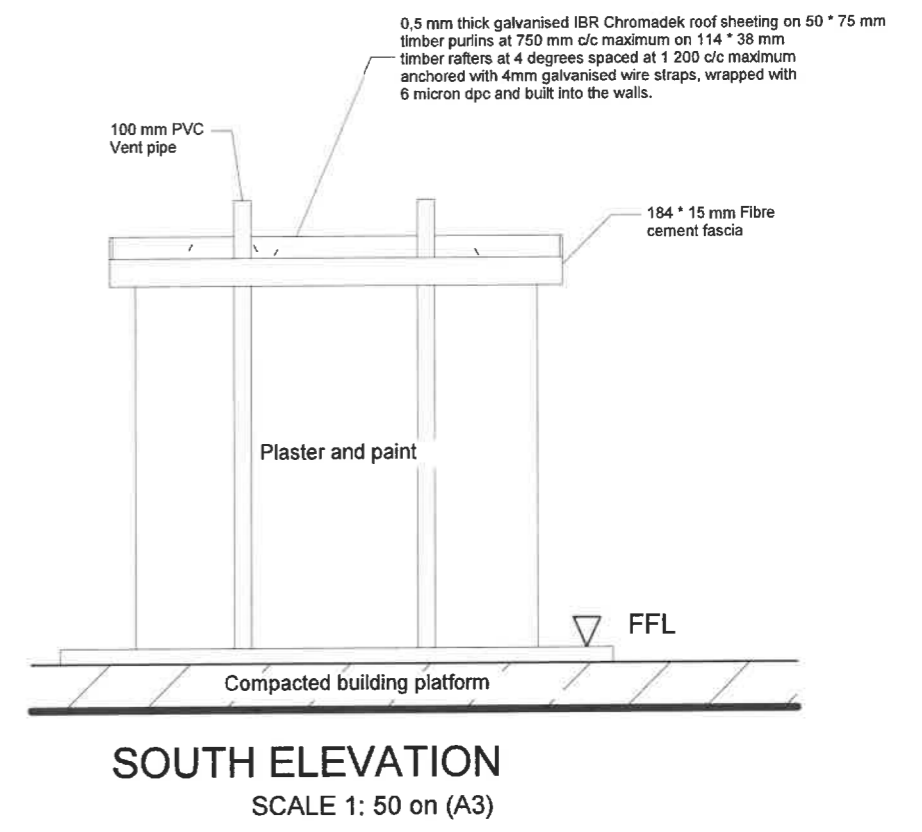
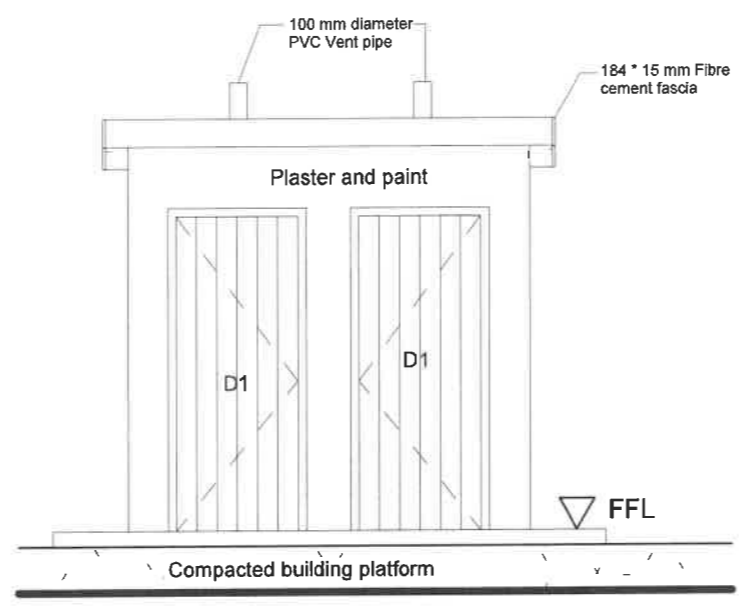
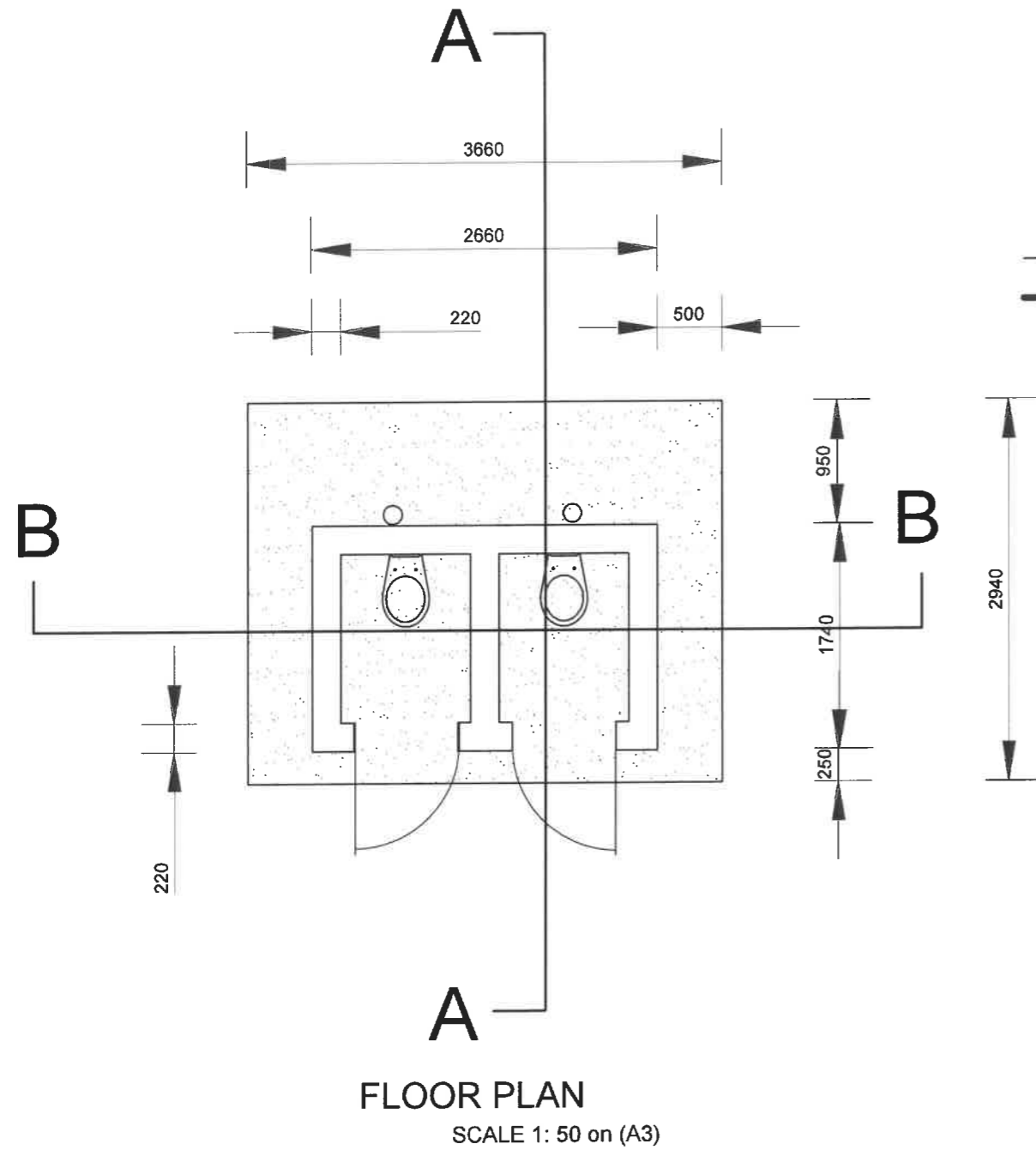
SHEARING BOARD



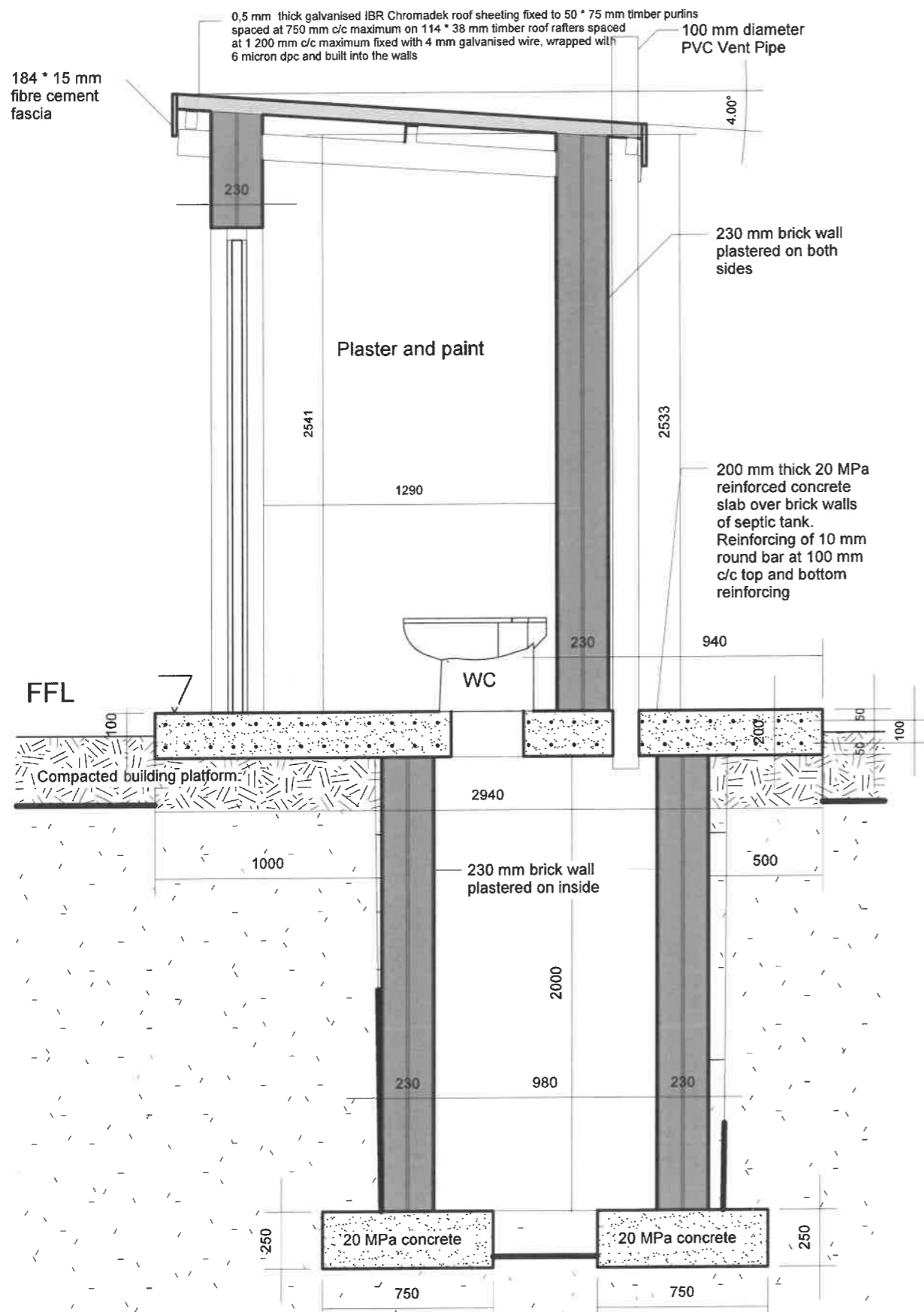
WOOL BASKETS
Not to scale

NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	SHEARING EQUIPMENT		SCALE	INDEX NO.
				SHEARING EQUIPMENT		NTS	SCMM-02/26/01
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	SHEARING EQUIPMENT		A3 ORIGINAL	PLAN NO. SHEET 1 OF 1

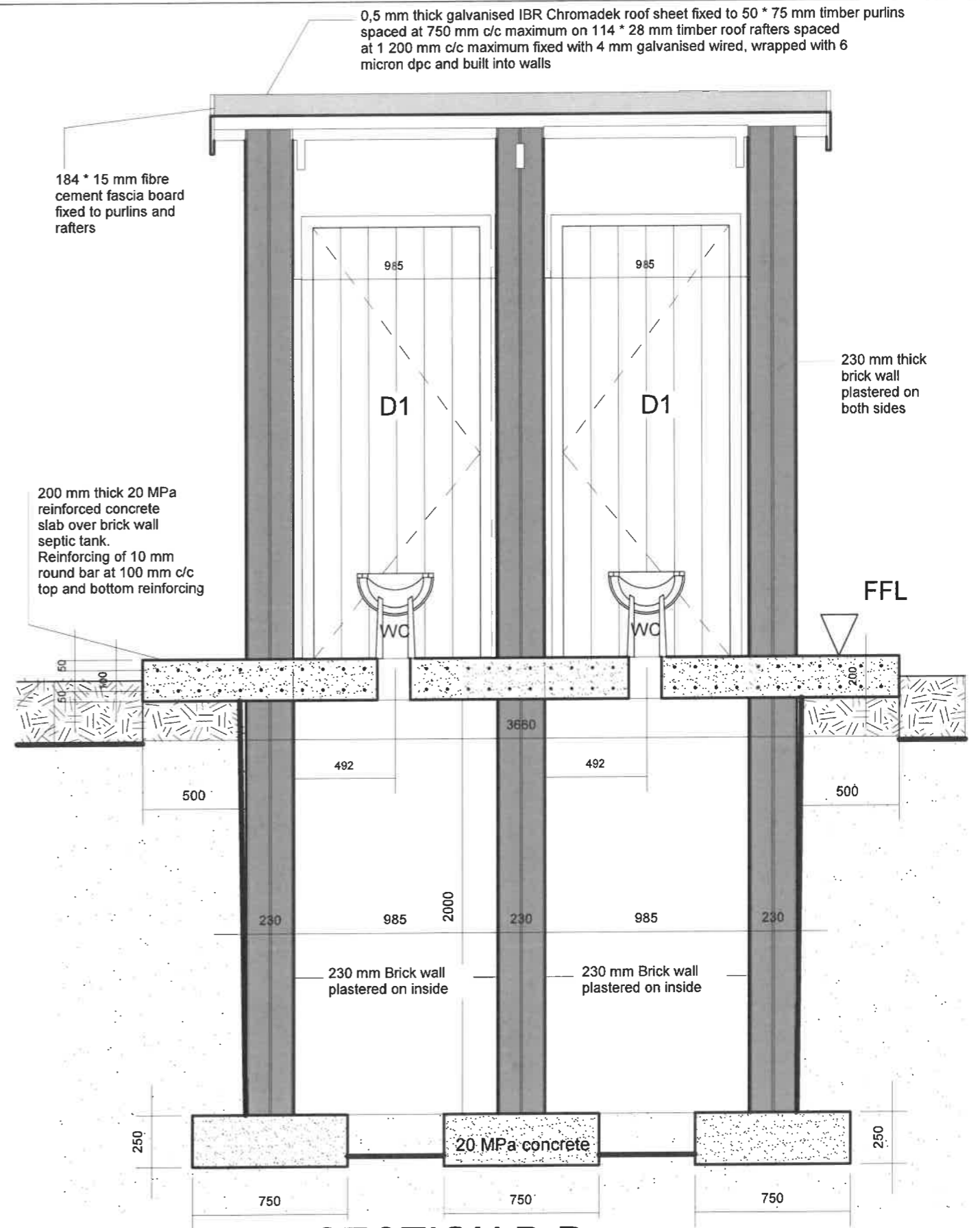
27 STANDARD PIT TOILET



NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER) APRIL 2022 (DATE APPROVED)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	PIT TOILET	SCALE	INDEX NO.		
					NTS	SCMM-02/27/01		
						PLAN AND ELEVATIONS	A3 ORIGINAL	PLAN NO.
							SHEET 1 OF 2	



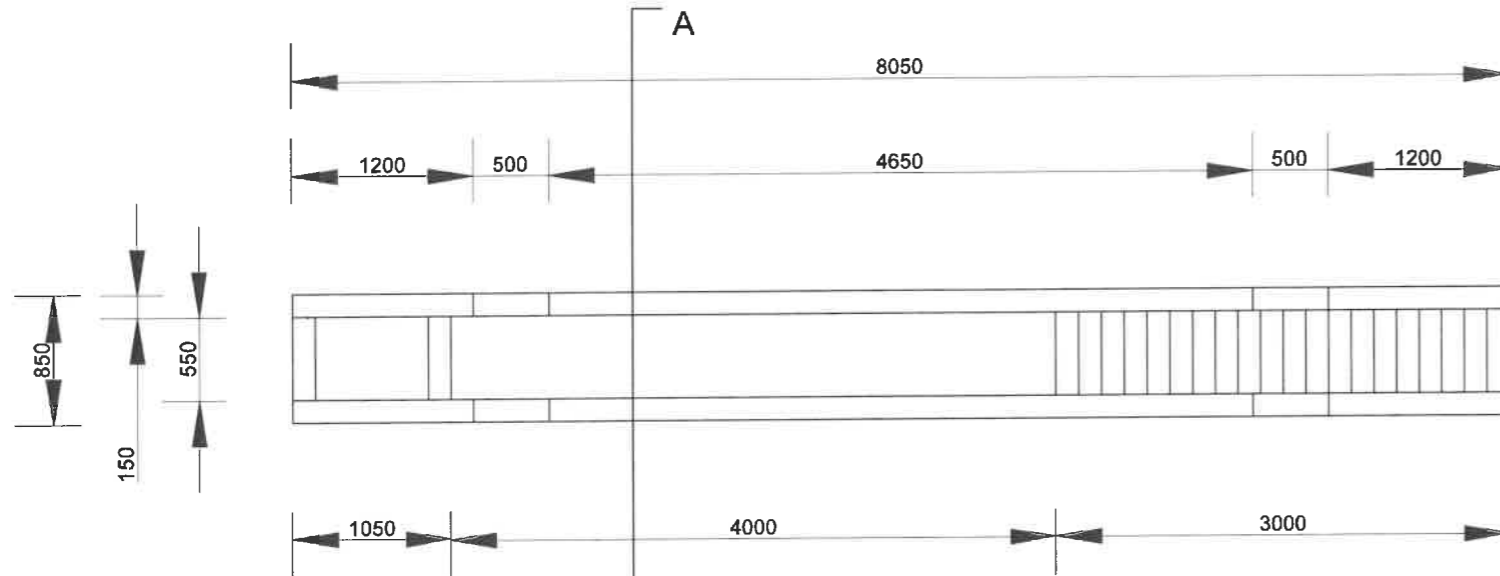
SECTION A-A
SCALE 1: 25 on (A3)



SECTION B-B
SCALE 1: 25 on (A3)

NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	PIT TOILET	SCALE	INDEX NO.
					NTS	SCMM-01/27/02
		DECEMBER 2020 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	SECTIONS	A3 ORIGINAL	PLAN NO. SHEET 2 OF 2

28 SHEEP PLUNGE DIP TANK



PLAN VIEW

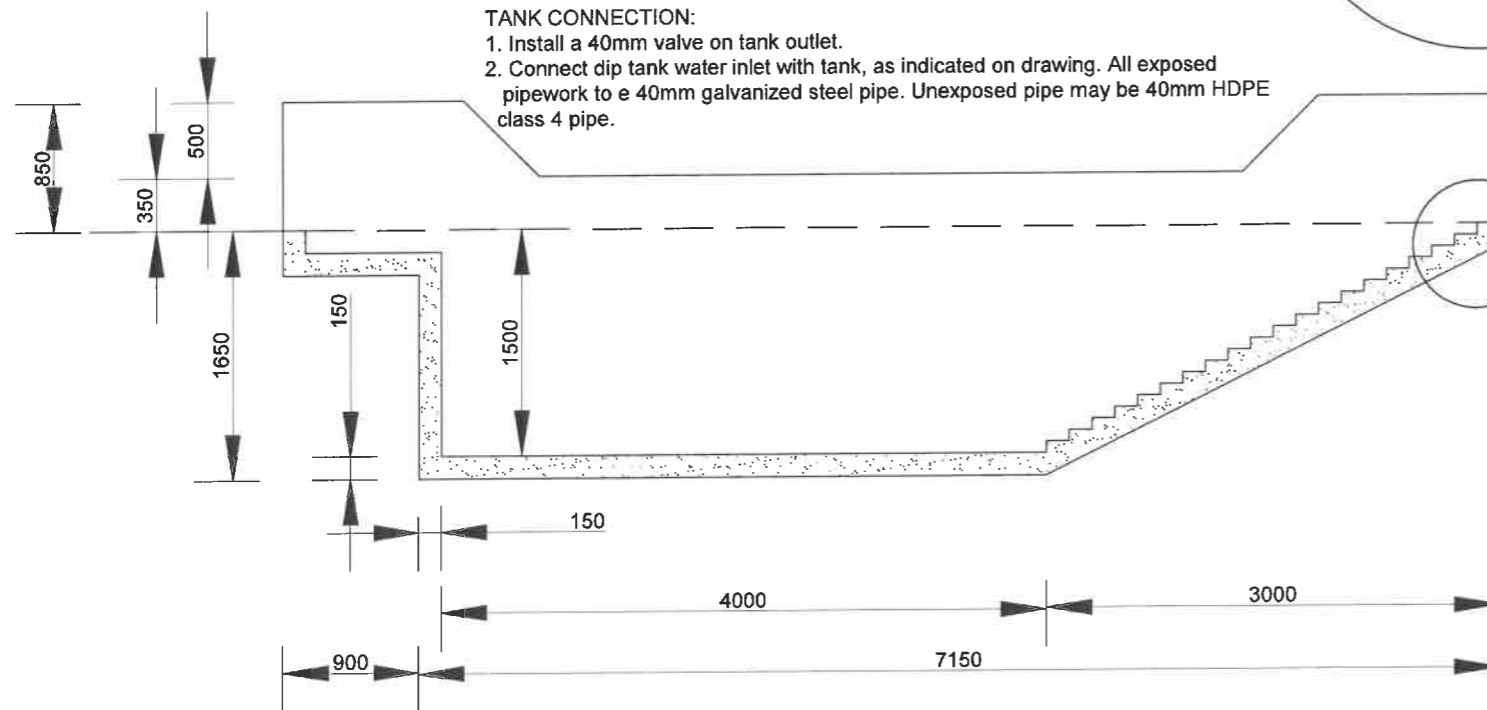
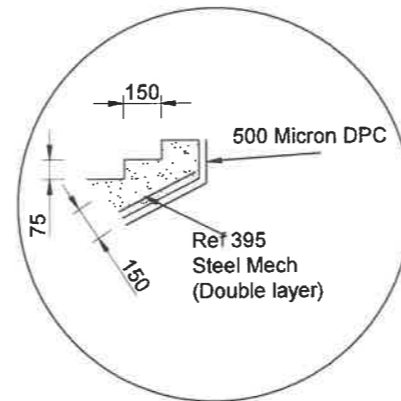
SCALE 1:50

DIP TANK:

1. Dip tank excavation to be smooth and stone free.
2. Excavation to be lined seamlessly with 500 micron DPC.
3. A double layer of Ref 395 steel reinforcement sheets to be placed in centre of dip tank walls and floor. Sheets to be bind together in such a manner that the spacing between members are halved.
4. Make use use of 25MPa water tight ready mix concrete with a maximum agrigate size of 19mm, well vibrated and compacted.
5. Install a 40mm galvanized steel pipe in the wall of the diptank during cast, for connection to water supply.
6. No concrete may be placed before the site engineered approved the formwork construction.

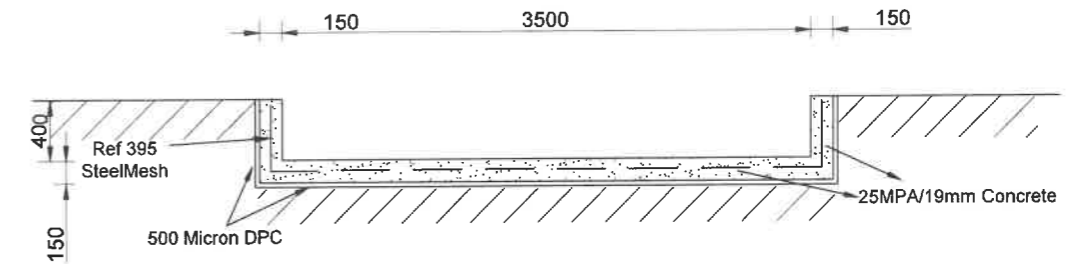
TANK CONNECTION:

1. Install a 40mm valve on tank outlet.
2. Connect dip tank water inlet with tank, as indicated on drawing. All exposed pipework to e 40mm galvanized steel pipe. Unexposed pipe may be 40mm HDPE class 4 pipe.



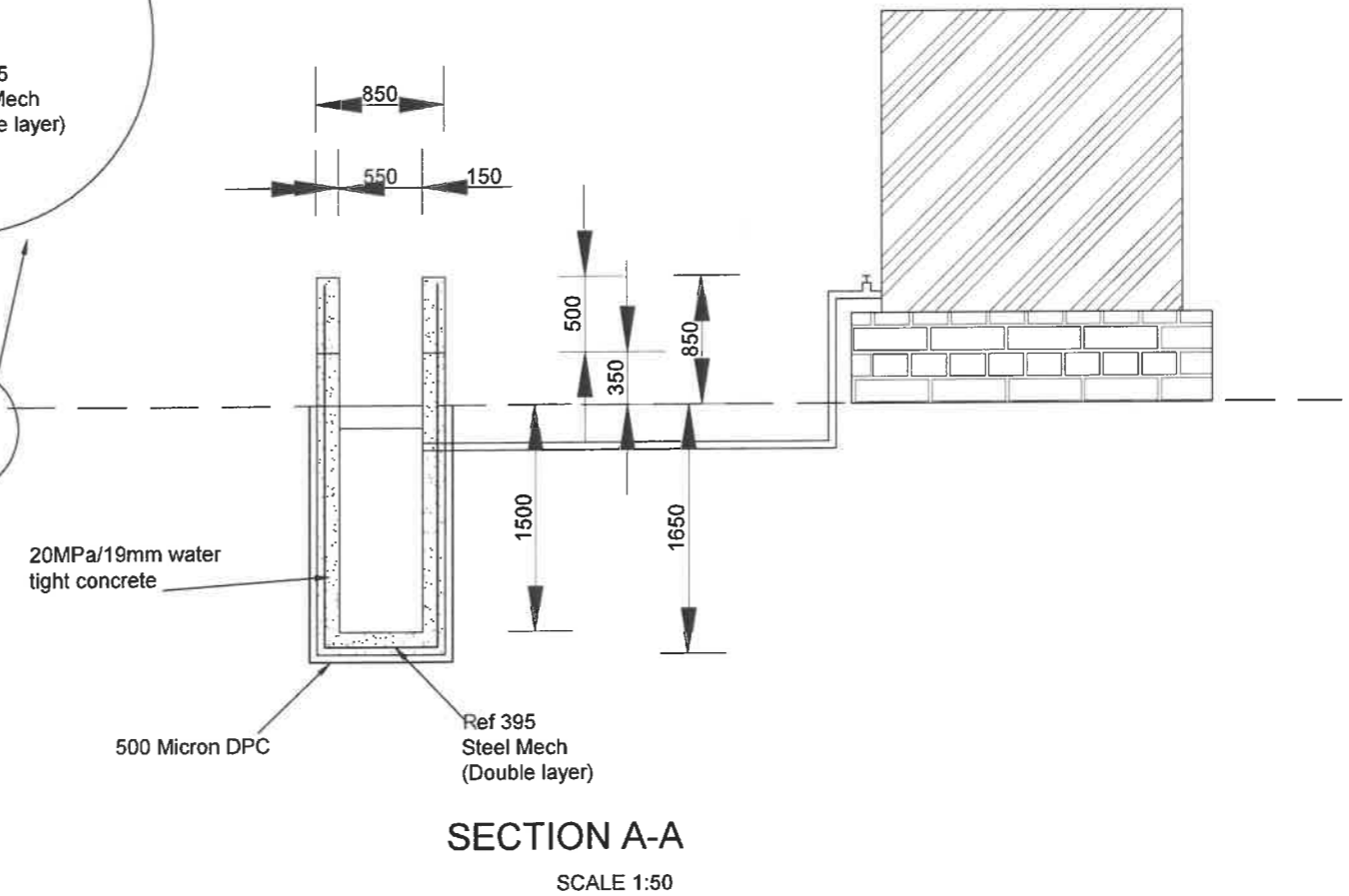
LONGITUNAL SECTION

SCALE 1:50



EVAPORATION POND

SCALE 1:50

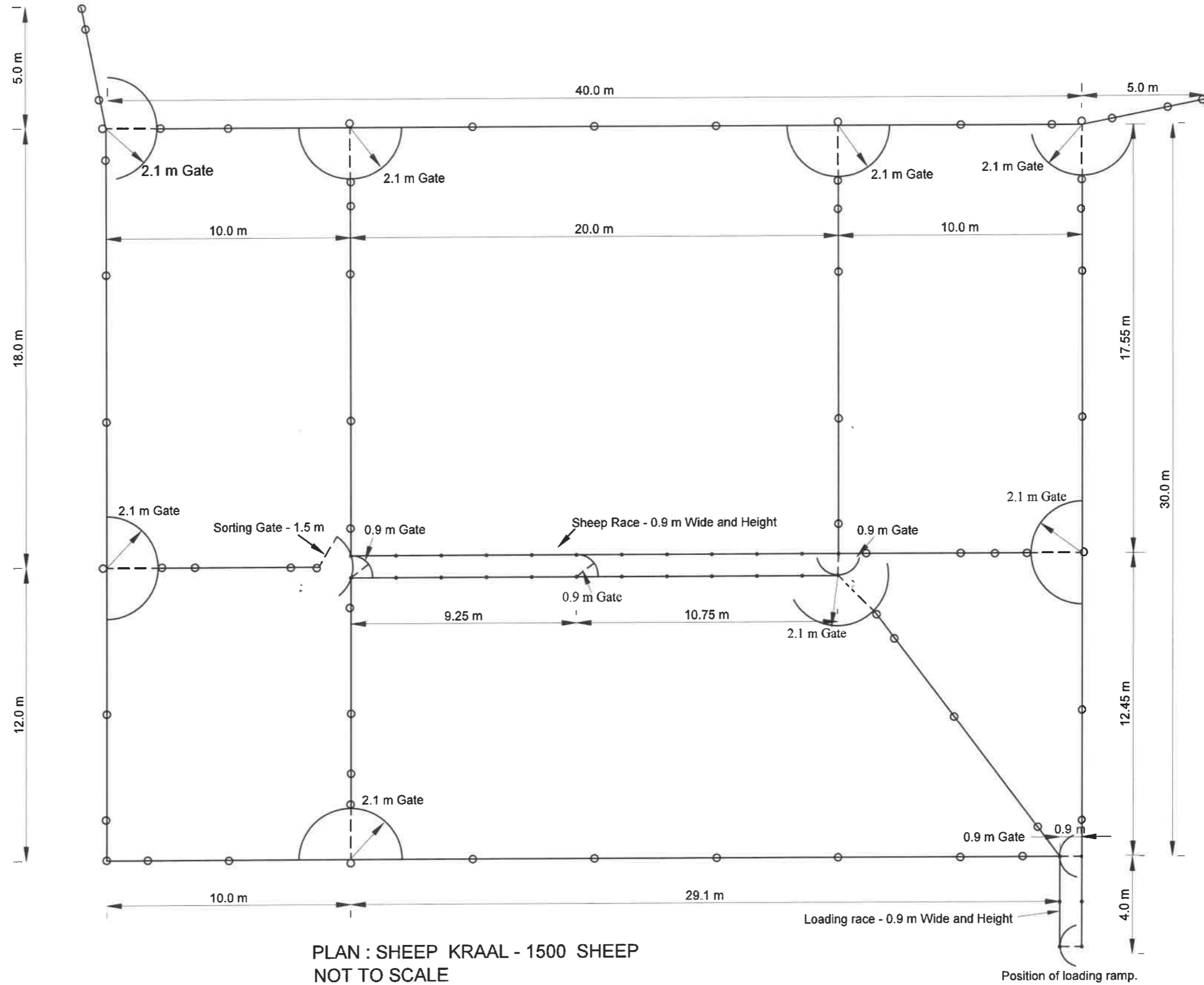


SECTION A-A

SCALE 1:50

NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	SHEEP PLUNGE DIP TANK	SCALE NTS	INDEX NO. SCMM-02/28/01
				PLAN AND SECTIONS	A3 ORIGINAL	PLAN NO. SHEET 1 OF 1
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			

29 SMALL STOCK HANDLING FACILITIES



PLAN : SHEEP KRAAL - 1500 SHEEP
NOT TO SCALE

Position of loading ramp.

NO.	SPECIAL NOTES:

JPJ KOCH
(CHIEF ENGINEER)

APRIL 2022
(DATE APPROVED)

DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM
PROVINCE OF THE EASTERN CAPE

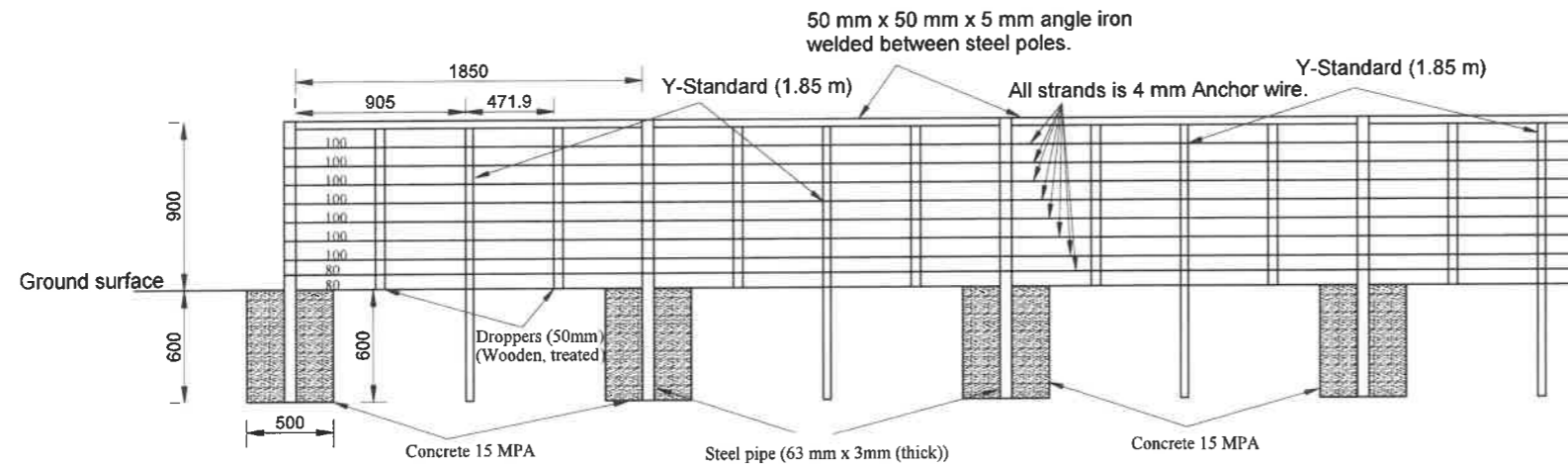
ENGINEERING SERVICES
PRIVATE BAG X015
DOHNE ADI
STUTTERHEIM
4930

SMALL STOCK HANDLING FACILITY

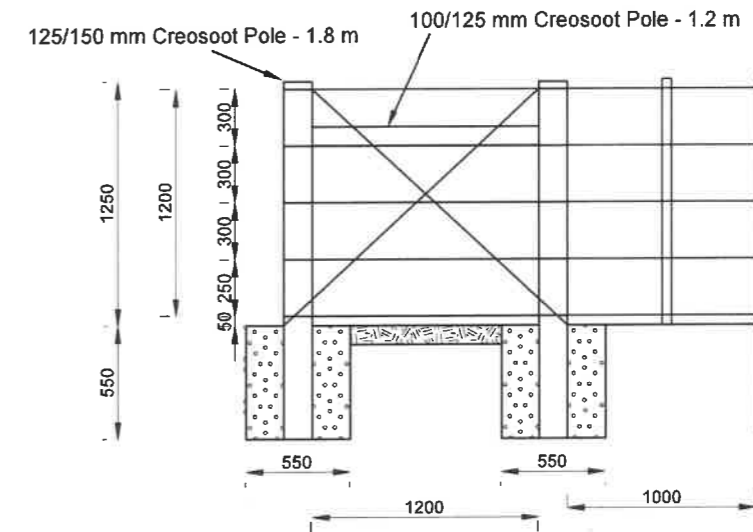
LAYOUT PLAN

SCALE	INDEX NO.
NTS	SCMM-02/29/01
A3 ORIGINAL	PLAN NO.
	SHEET 1 OF 2

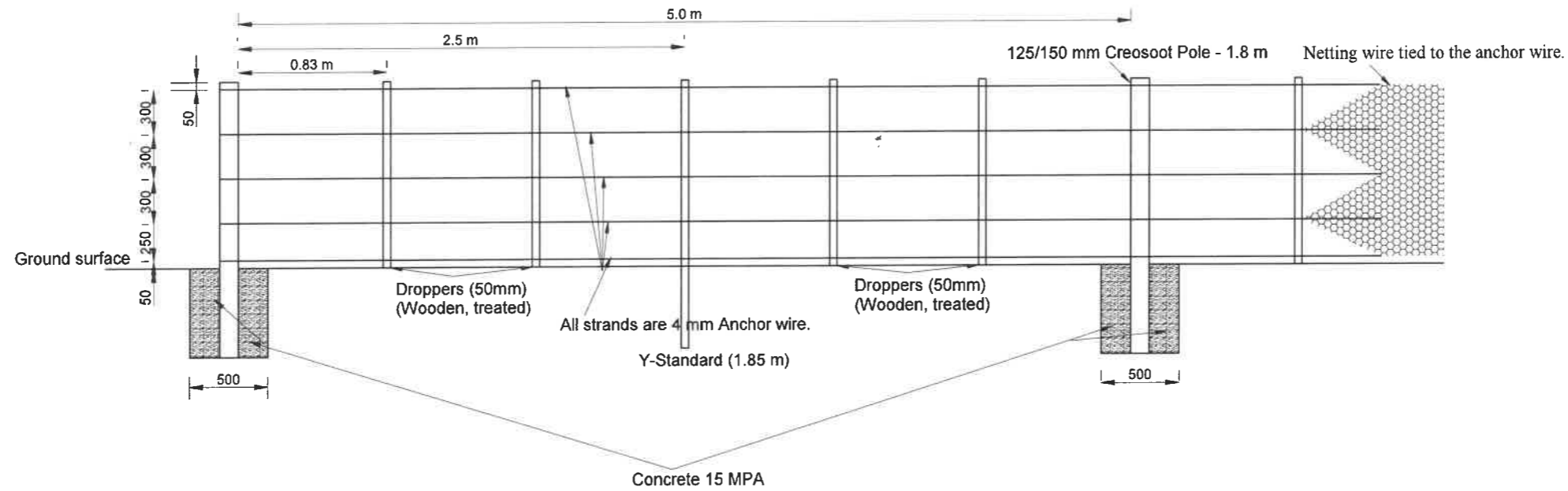
SHEEP KRAAL SPECS



RACE & LOADING RACE
NOT TO SCALE



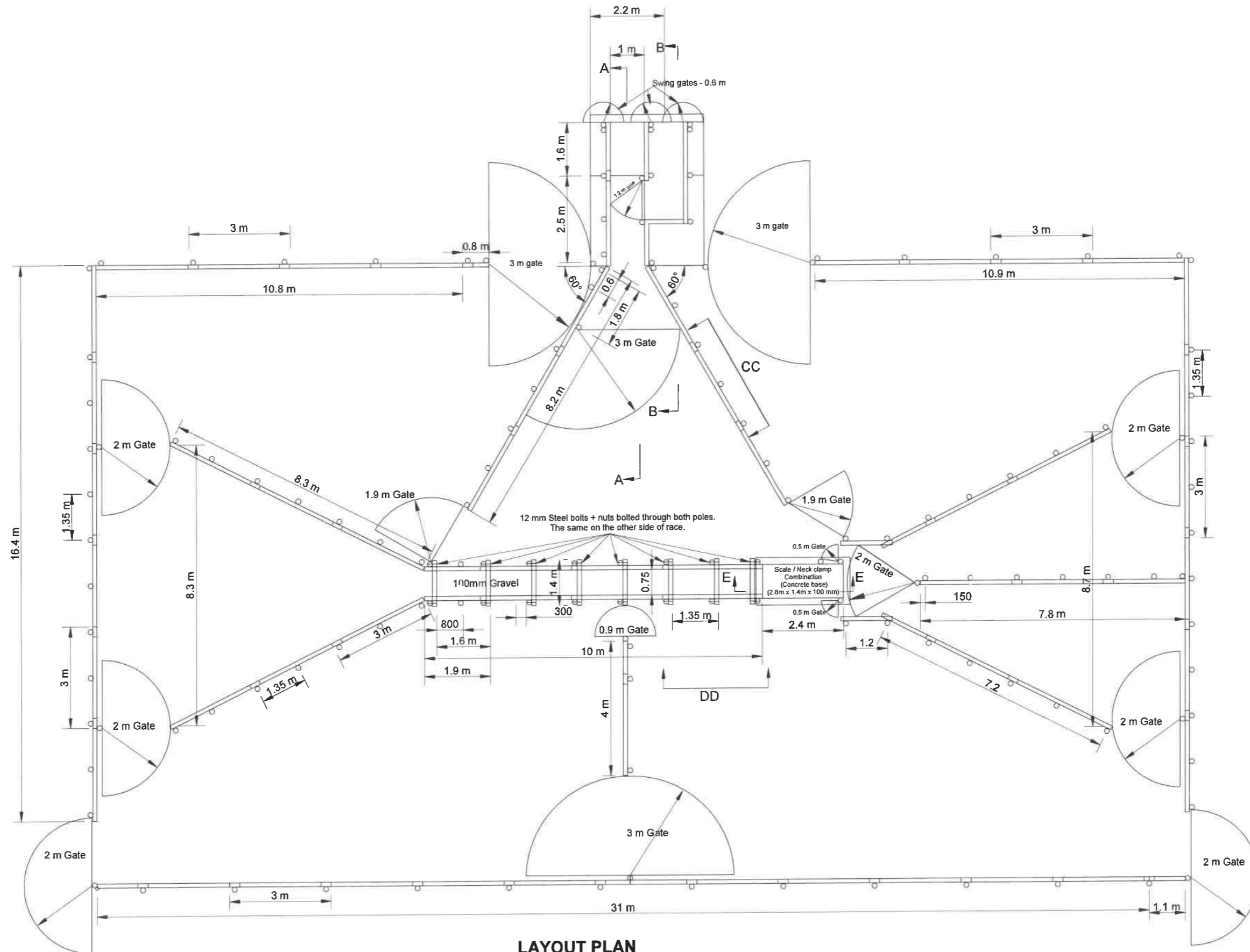
BOX ANCHOR
NOT TO SCALE



KRAAL FENCE
NOT TO SCALE

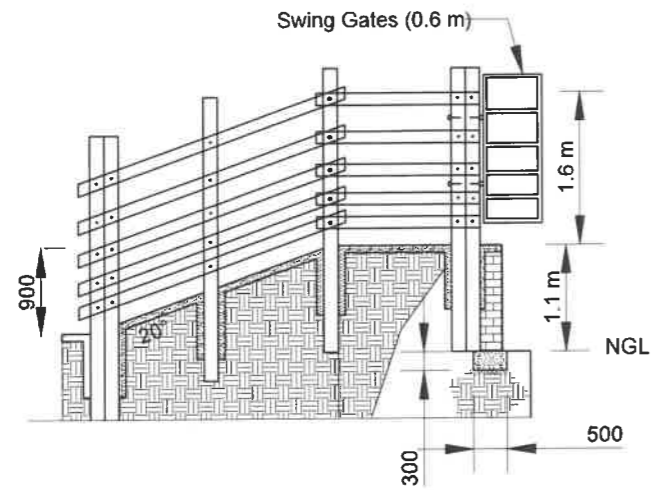
NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	SMALL STOCK HANDLING FACILITY	SCALE	INDEX NO.
				DETAIL PLAN	NTS	SCMM-02/29/02
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930		A3 ORIGINAL	PLAN NO. SHEET 2 OF 2

30 LARGE STOCK HANDLING FACILITIES

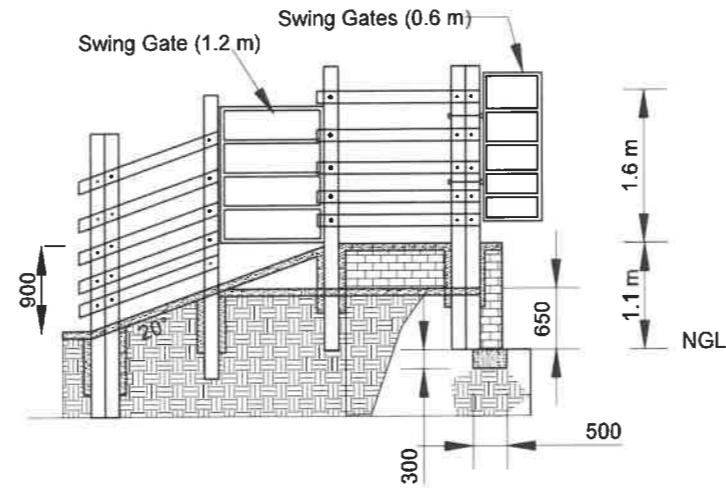


LAYOUT PLAN
NTS

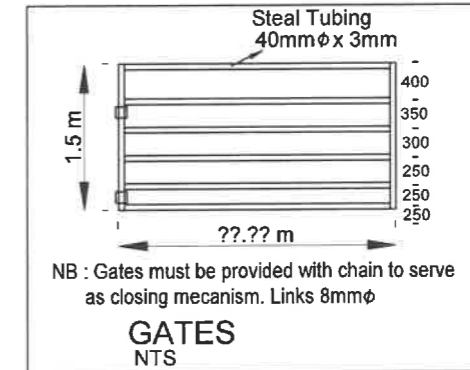
NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER) APRIL 2022 (DATE APPROVED)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	LARGE STOCK HANDLING FACILITY		SCALE	INDEX NO.
				LAYOUT PLAN		NTS	SCMM-02/30/01
						A3 ORIGINAL	PLAN NO.
							SHEET 1 OF 2



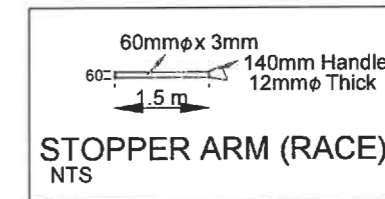
Section AA
NTS



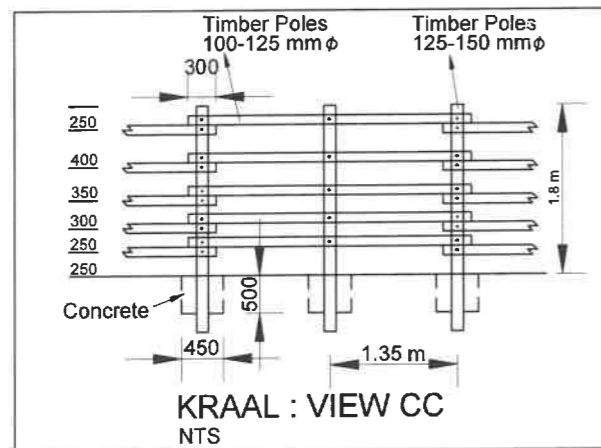
Section BB
NTS



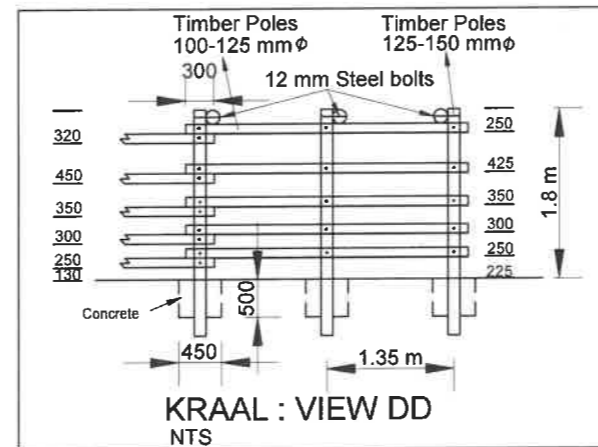
GATES
NTS



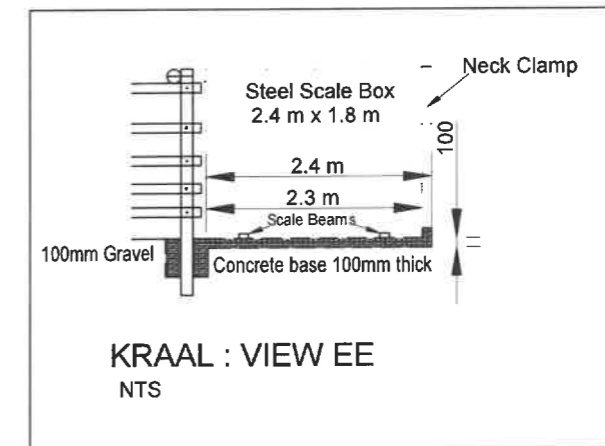
STOPPER ARM (RACE)
NTS



KRAAL : VIEW CC
NTS



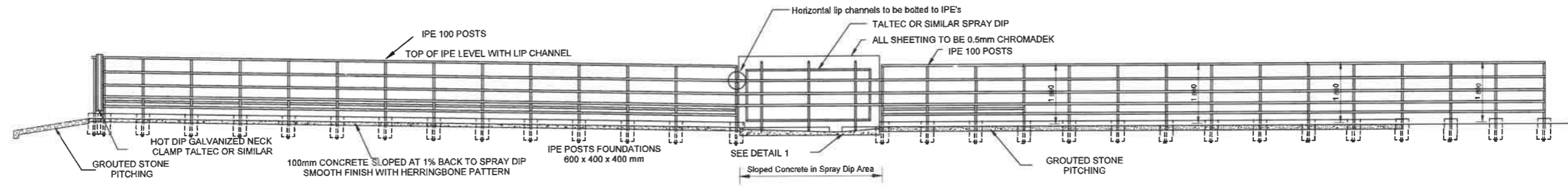
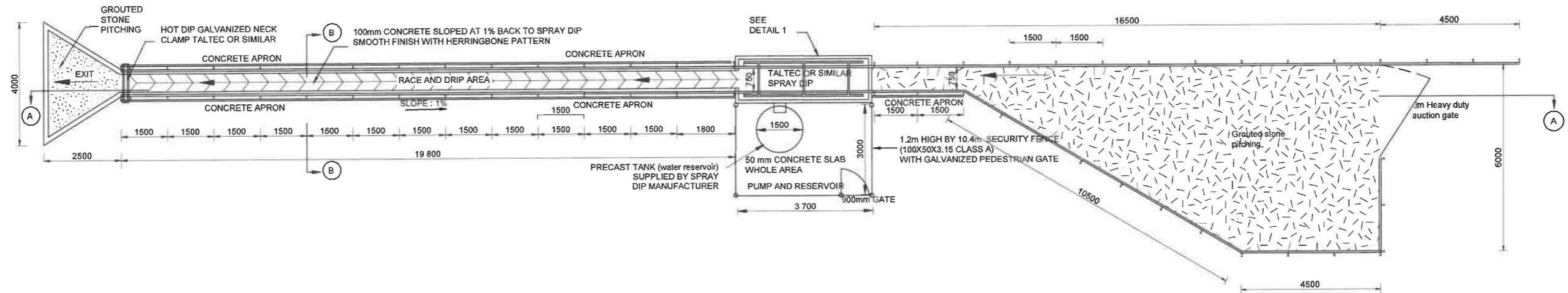
KRAAL : VIEW DD
NTS



KRAAL : VIEW EE
NTS

NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER) APRIL 2022 (DATE APPROVED)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	LARGE STOCK HANDLING FACILITY		SCALE NTS	INDEX NO. SCMM-02/30/02
				SECTIONS & DETAIL DRAWINGS		A3 ORIGINAL	PLAN NO. SHEET 2 OF 2

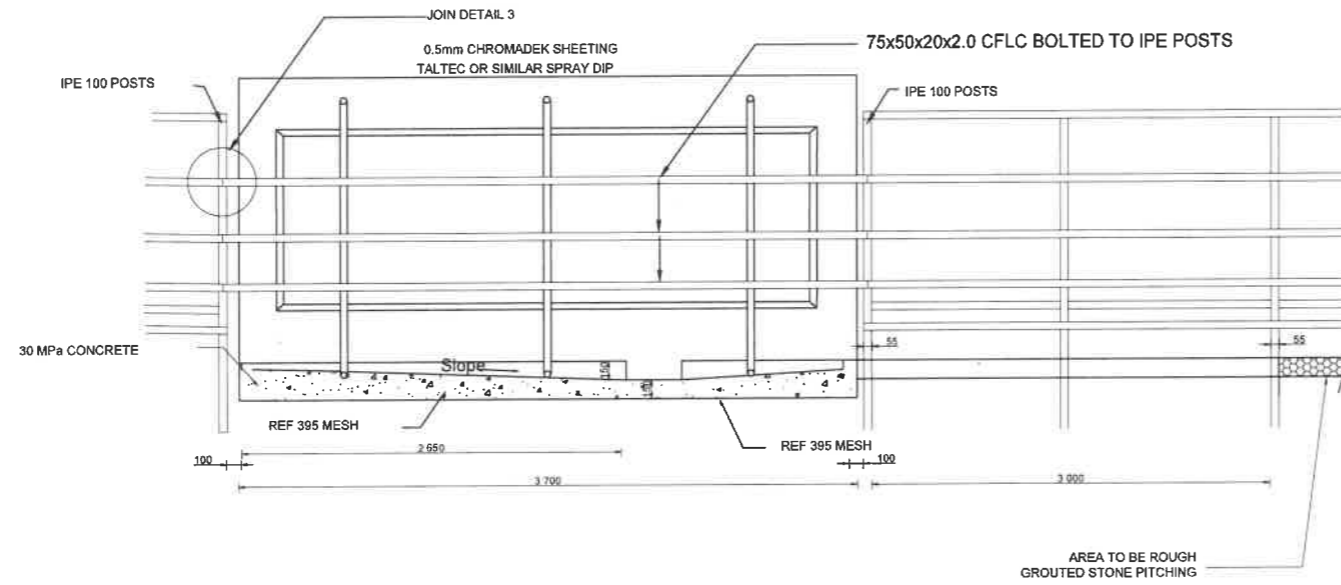
31 CATTLE SPAY RACE (STEEL)



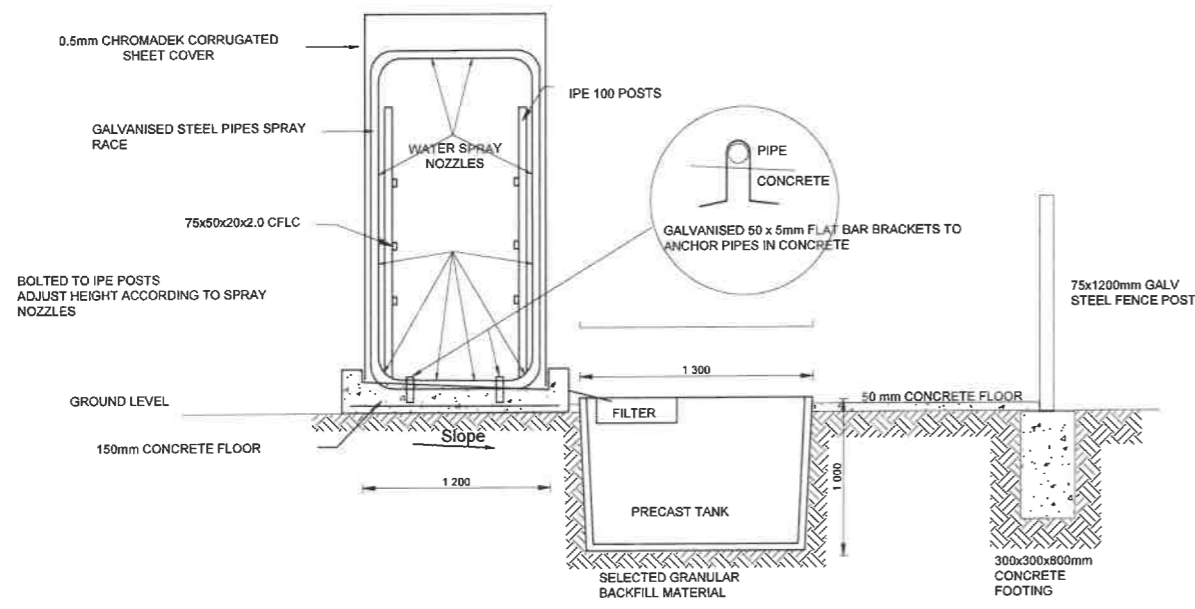
THIS OFFICE SHOULD BE NOTIFIED FOR INSPECTIONS AT THE FOLLOWING STAGES:

1. After the excavations has been completed and before concrete is placed.
2. After the formwork has been placed.
3. Before welding start on site

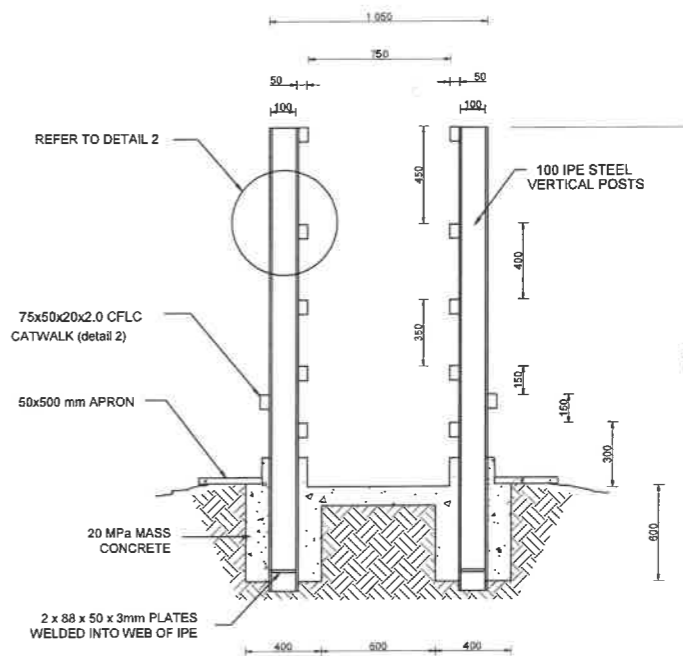
NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	CATTLE SPRAY DIP RACE (STEEL)	SCALE NTS	INDEX NO. SCMM-02/31/01
				SITE LAYOUT PLAN	A3 ORIGINAL	PLAN NO. SHEET 1 OF 6
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			



SECTION C-C

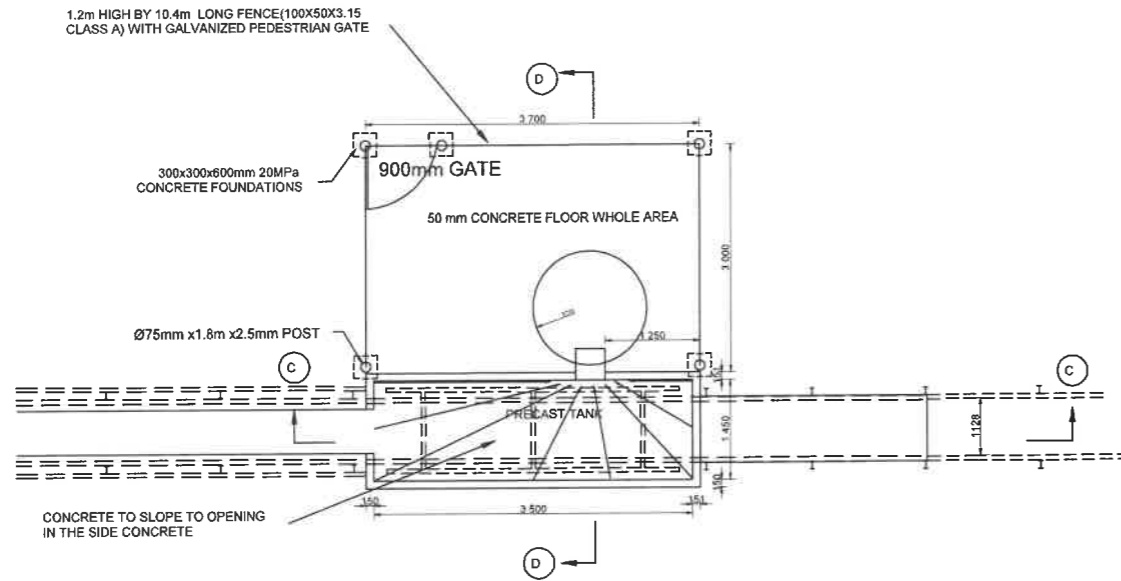


SECTION D-D

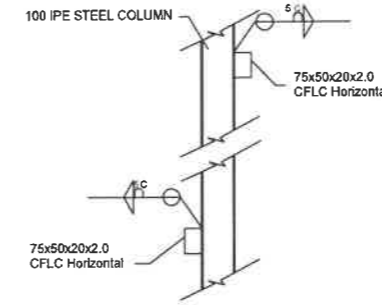


SECTION B-B

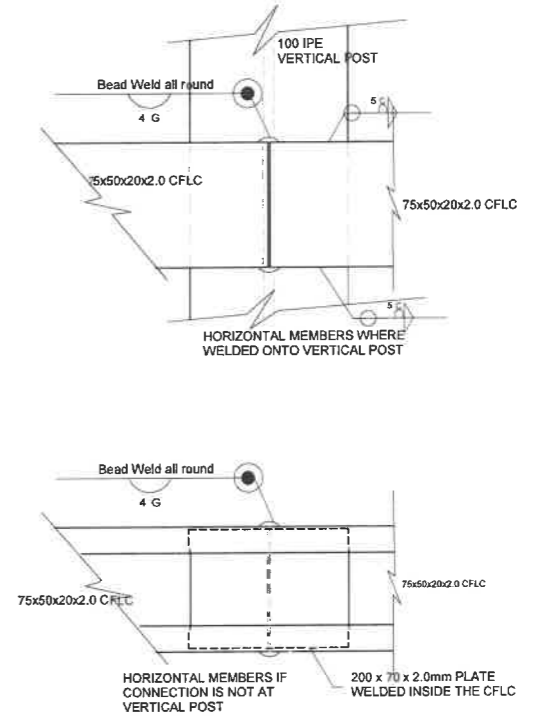
NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	CATTLE SPRAY DIP RACE (STEEL)	SCALE NTS	INDEX NO. SCMM-02/31/02
			ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	DETAILS 1	A3 ORIGINAL	PLAN NO. SHEET 2 OF 6
		APRIL 2022 (DATE APPROVED)				



DETAIL 1

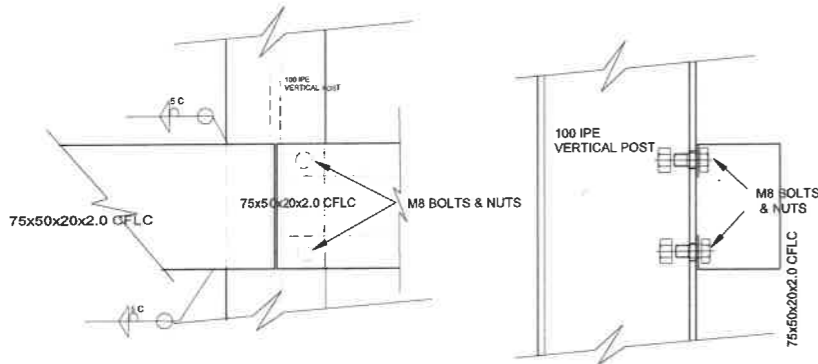


DETAIL 2

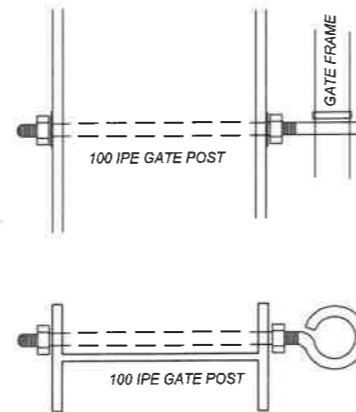


JOIN DETAIL

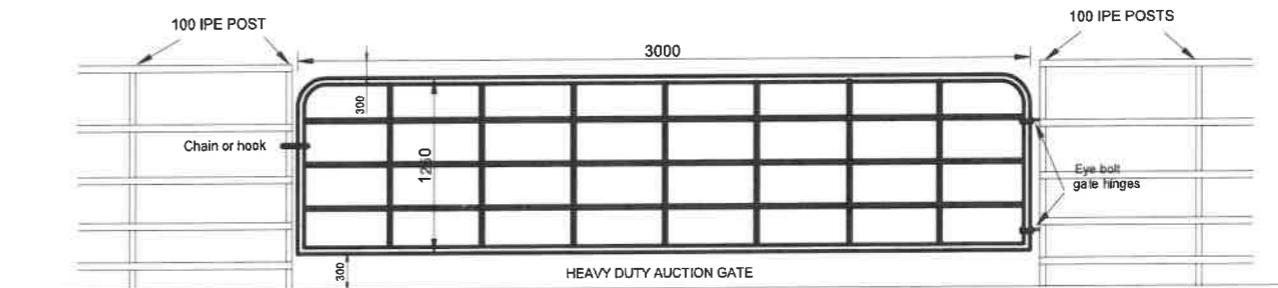
WELDING
 ALL HORIZONTAL COLD FORM LIP CHANNELS MUST BE ARC WELDED TO THE VERTICAL 100 IPE'S ELECTRODE CLASSIFICATION - E50XX (ELECTRODES MUST COMPLY WITH SABS 0162-1:1993) WELDING MUST COMPLY WITH THE STANDARDS AS SET OUT IN SABS 044: 1963
 YIELD STRENGTH - 413 MPa
 TENSILE STRENGTH - 480 MPa



JOIN DETAIL 3

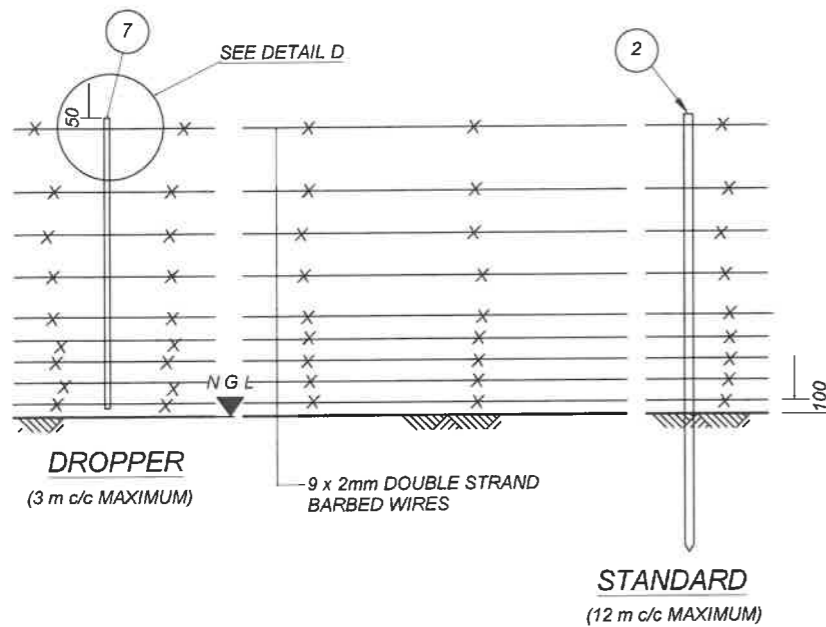


GATE HINGE EYE BOLT

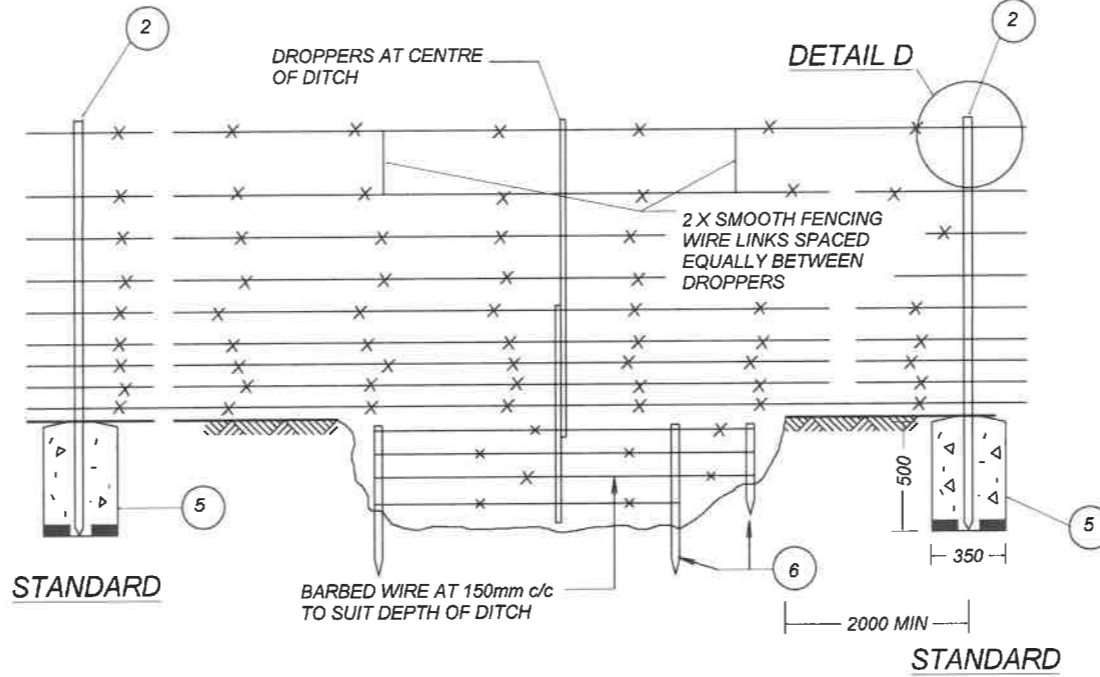


GATE DETAIL

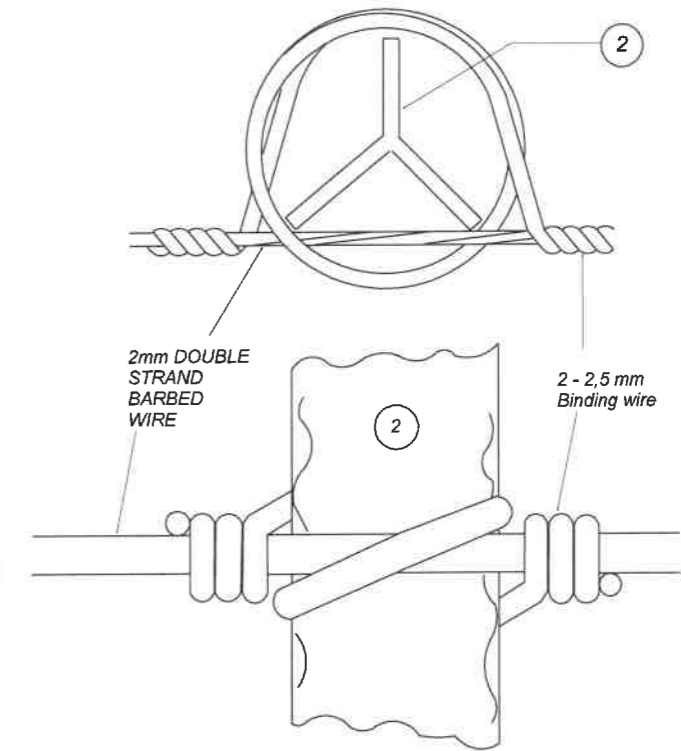
NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	CATTLE SPRAY DIP RACE (STEEL)	SCALE NTS	INDEX NO. SCMM-02/31/03
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	DETAILS 2	A3 ORIGINAL	PLAN NO. SHEET 3 OF 6



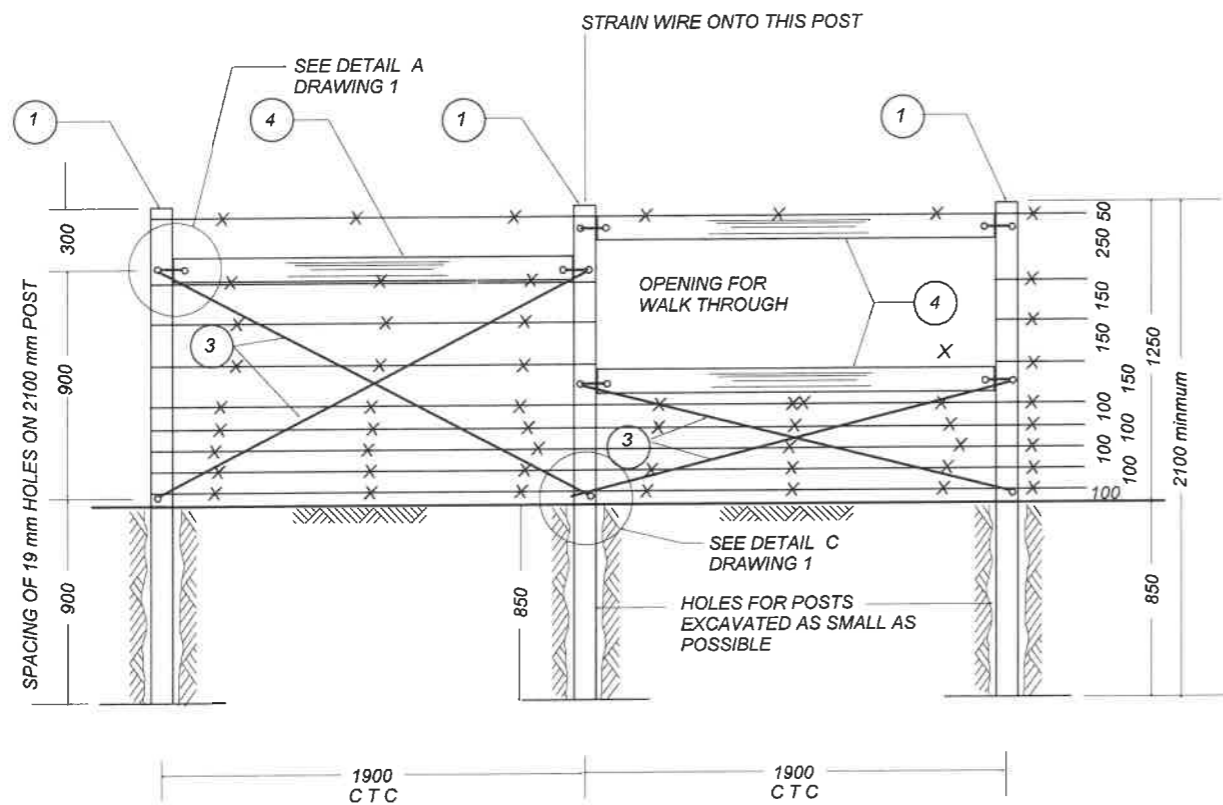
STOCK PROOF FENCE



CROSSING CANALS AND TRENCHES



DETAIL D



STRAINING POST with BOX ANCHOR WALKTHROUGH

(250m MAXIMUM SPACING)

LEGEND

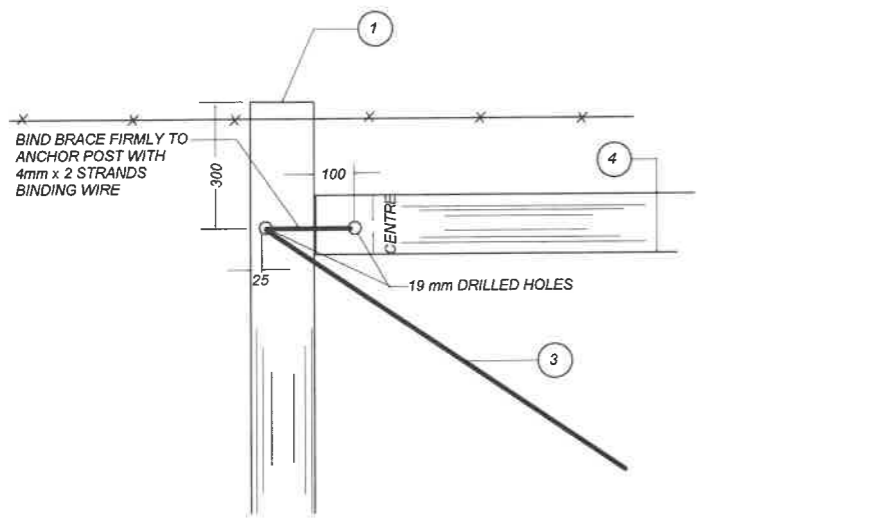
- 1 — 125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST CORNER, STRAINING AND ANCHOR POSTS
- 2 — 2,0 kg/m x 1800 mm Y SECTION IRON STANDARD
- 3 — 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- 4 — 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST BRACES IN BOX ANCHORS
- 5 — STANDARDS EMBEDDED IN CLASS 20/19 CONCRETE IF ORDERED BY THE ENGINEER
- 6 — STAKES (DROPPER PROFILE) OF SUITABLE LENGTH DRIVEN FIRMLY INTO SIDES & BED OF TRENCH AT APPROVED SPACINGS. STAKES TO BE ALIGNED WITH & TIED TO DROPPERS WITH WIRE WHERE REQUIRED.
- 7 — 0,56 kg/m x 1150 mm RIDGEBACK PATTERN IRON DROPPER

NGL NATURAL GROUND LEVEL

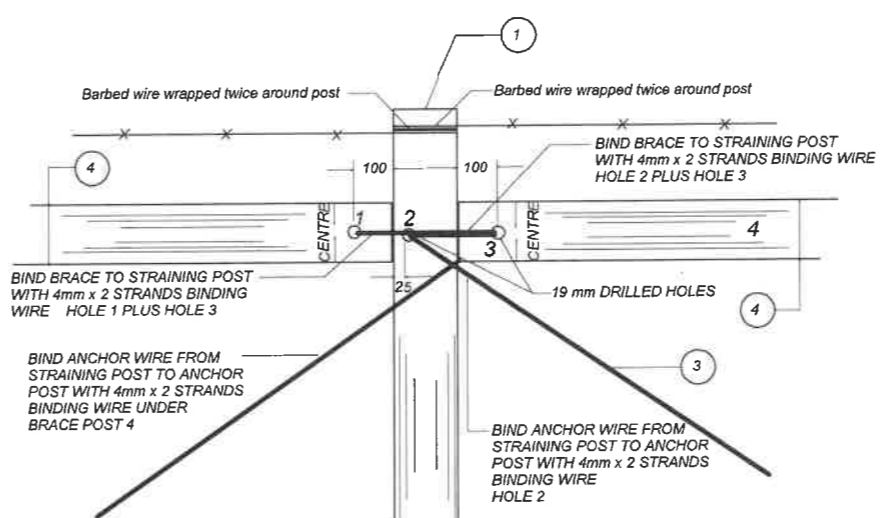
NOTES:

THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

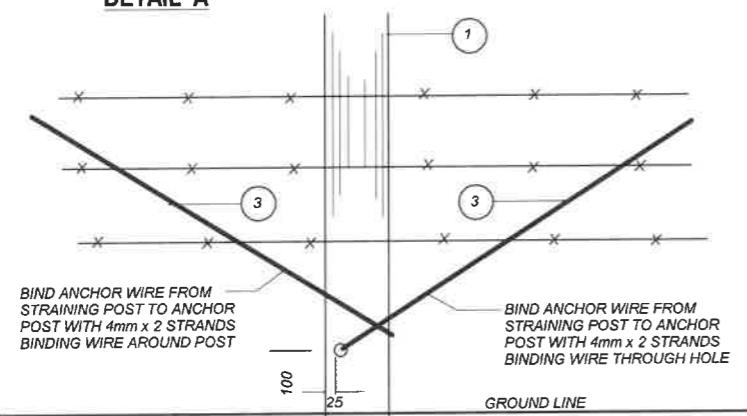
NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	STANDARD SPRAY DIP (STEEL)	SCALE	INDEX NO.
						NTS	SCMM-02/31/04
		APRIL 2022 (DATE APPROVED)			POND FENCE - 1	A3 ORIGINAL	PLAN NO. SHEET 4 OF 6



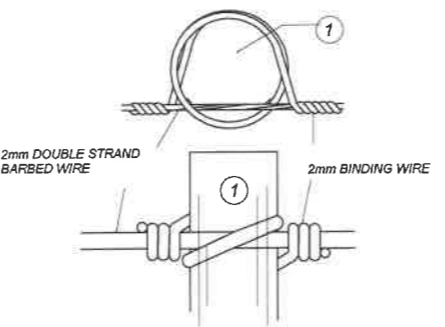
DETAIL A



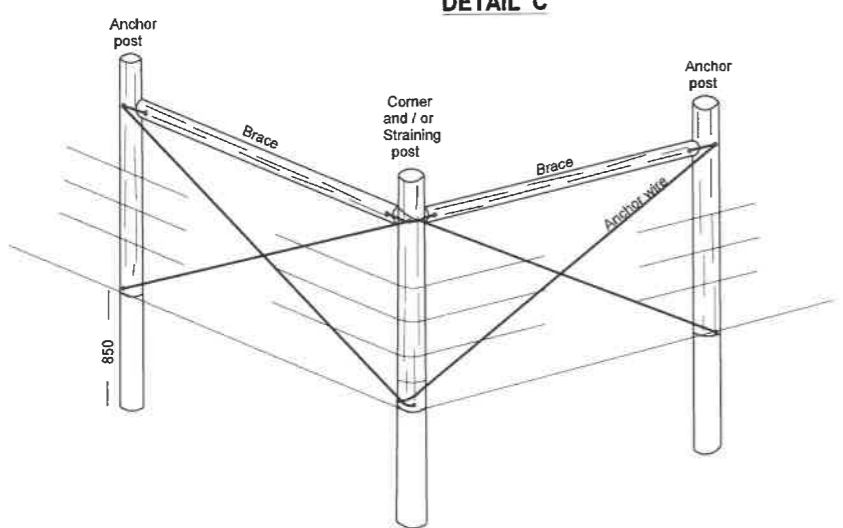
DETAIL B



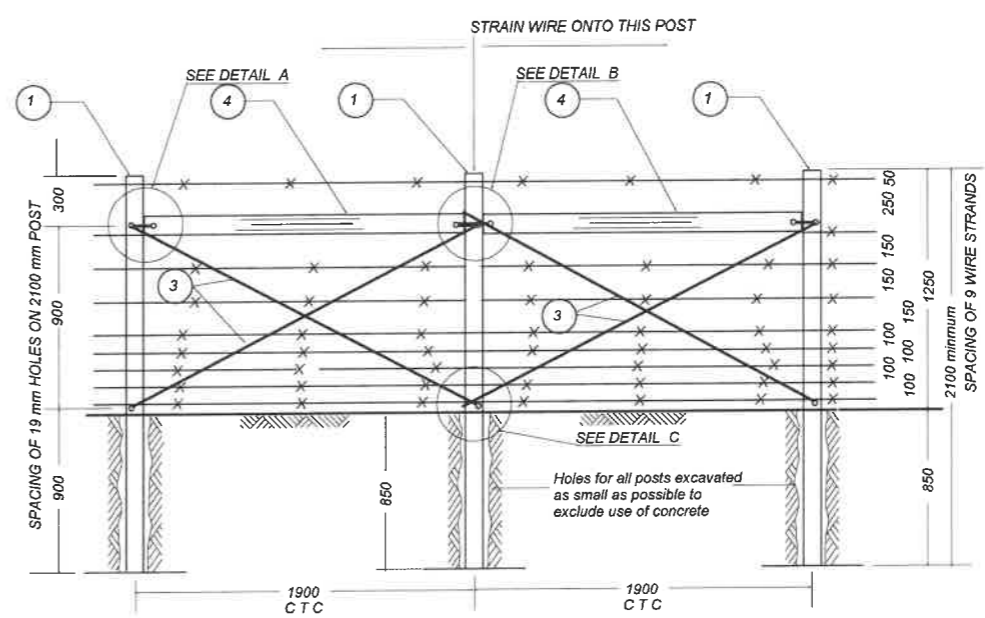
DETAIL C



DETAIL D



CORNER WITH BOX ANCHOR



**CORNER AND / OR STRAINING POST with BOX ANCHOR
(250m MAXIMUM SPACING)**

LEGEND

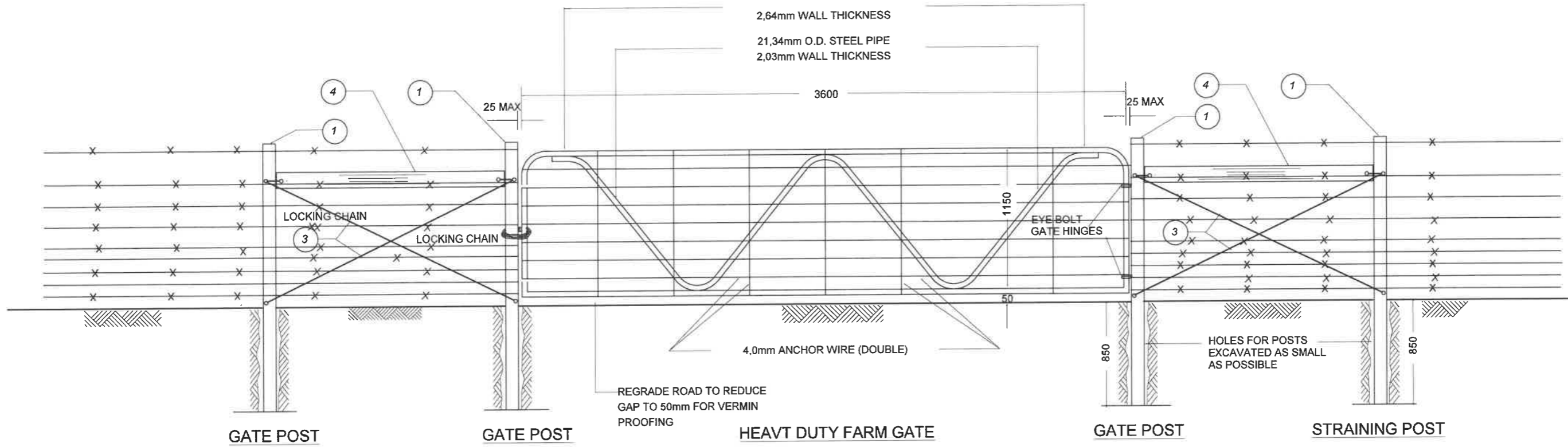
- ① 125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST CORNER, STRAINING AND ANCHOR POSTS
- ③ 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- ④ 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST BRACES IN BOX ANCHORS

NOTES:

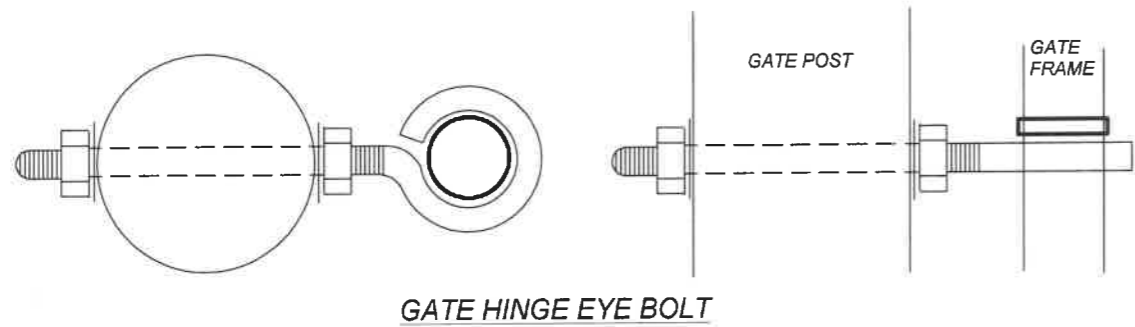
1. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

NGL NATURAL GROUND LEVEL

NO.	SPECIAL NOTES:	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	STANDARD SPRAY DIP (STEEL)	SCALE	INDEX NO.
				NTS	SCMM-02/31/05
				A3 ORIGINAL	PLAN NO.
					SHEET 5 OF 6



FARM GATES



LEGEND

1 — 125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST
CORNER, STRAINING, GATE AND ANCHOR POSTS

3 — 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE

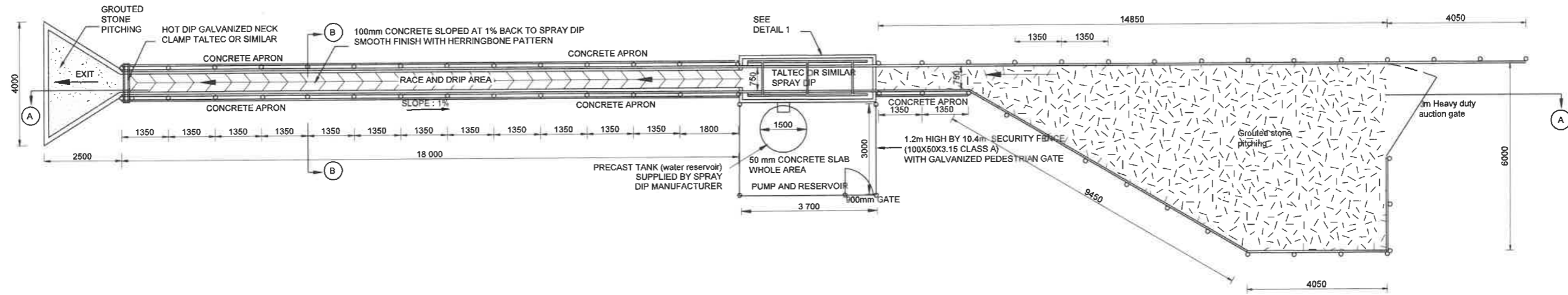
4 — 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST
BRACES IN BOX ANCHORS

NGL NATURAL GROUND LEVEL

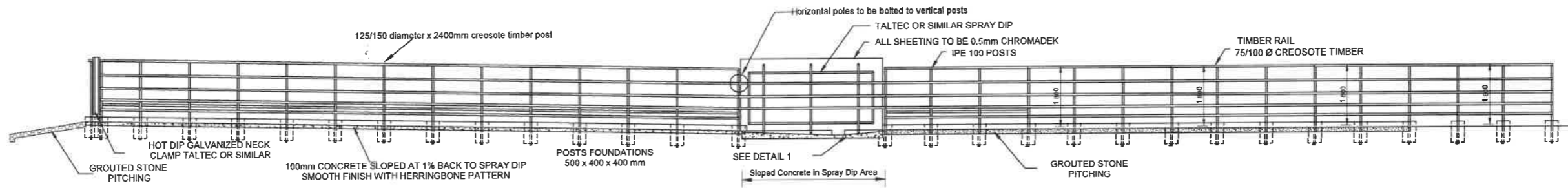
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THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD SPRAY DIP (STEEL)	SCALE	INDEX NO.
					NTS	SCMM-02/31/06
	APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADJ STUTTERHEIM 4930		SITE LAYOUT PLAN	A3 ORIGINAL	PLAN NO. SHEET 6 OF 6

32 CATTLE SPAY RACE (TIMBER)



SPRAY DIP LAYOUT
SCALE 1:150 (A3)

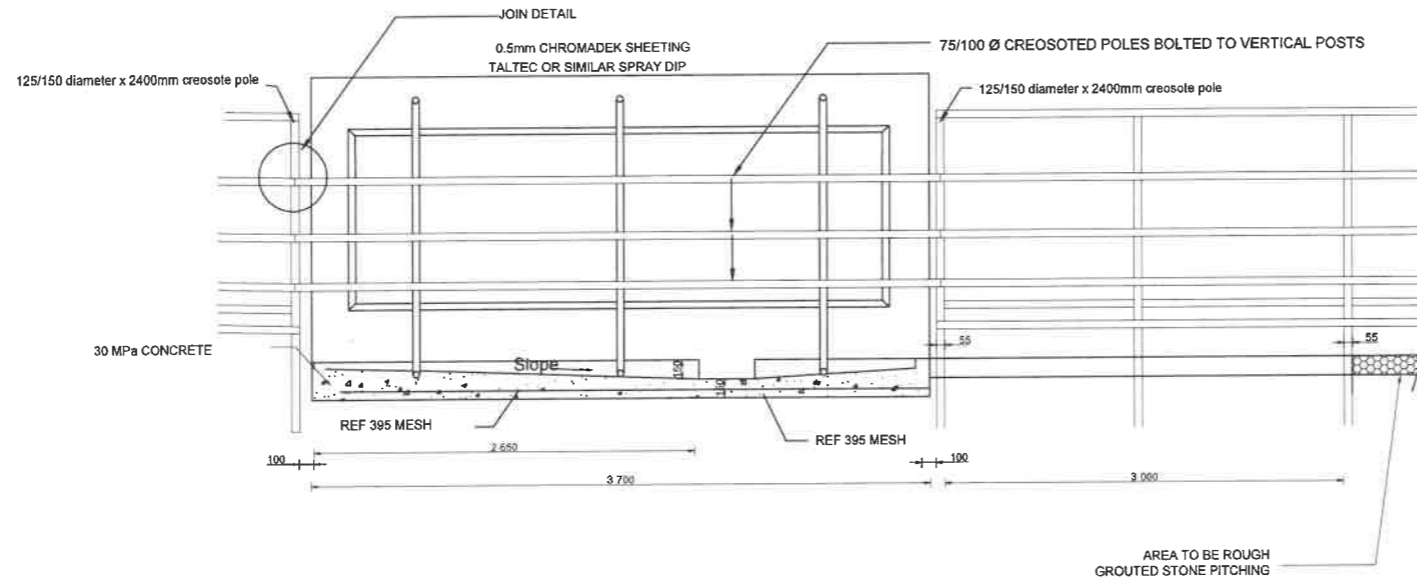


SECTION A-A
SCALE 1:150 (A3)

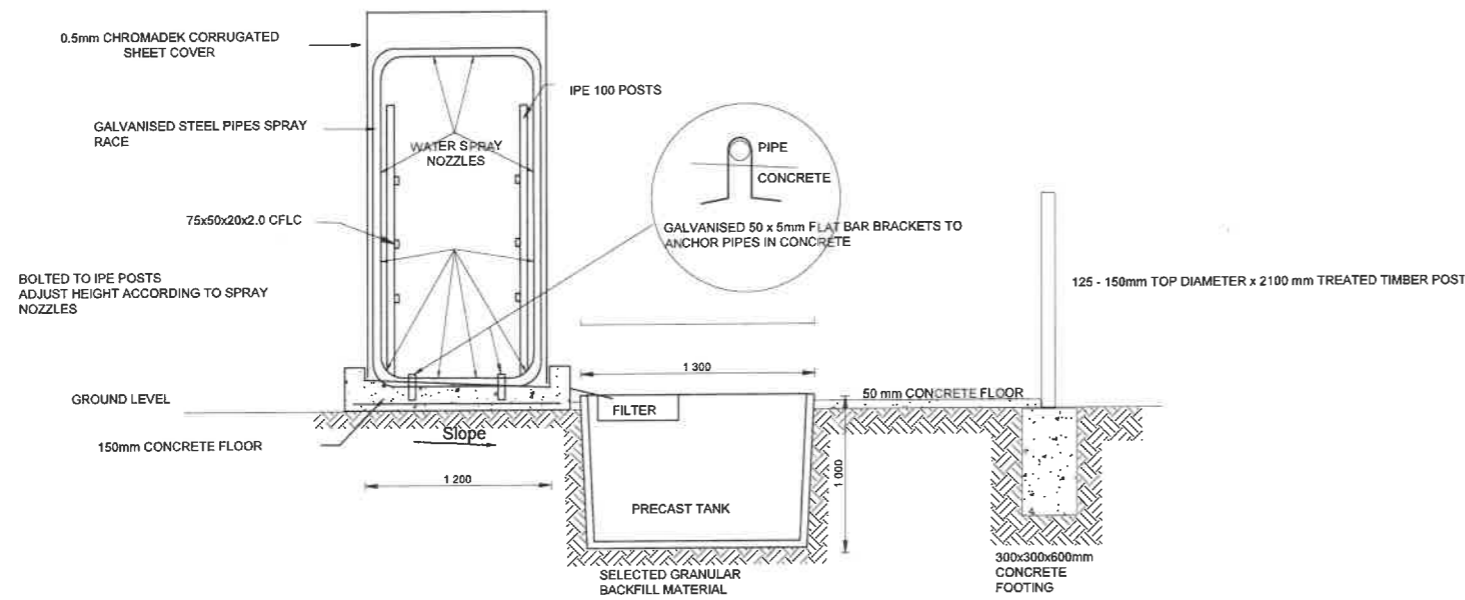
THIS OFFICE SHOULD BE NOTIFIED FOR INSPECTIONS AT THE FOLLOWING STAGES:

1. After the excavations has been completed and before concrete is placed.
2. After the formwork has been placed.
3. Before welding start on site

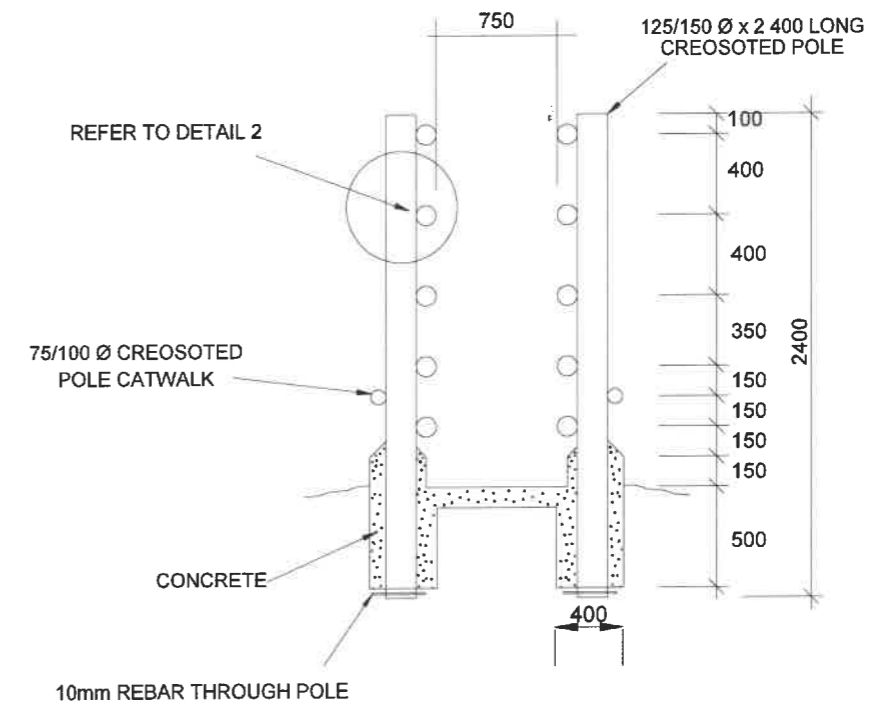
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				SITE LAYOUT	A3 ORIGINAL	PLAN NO. SHEET 1 OF 6
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			



SECTION C-C

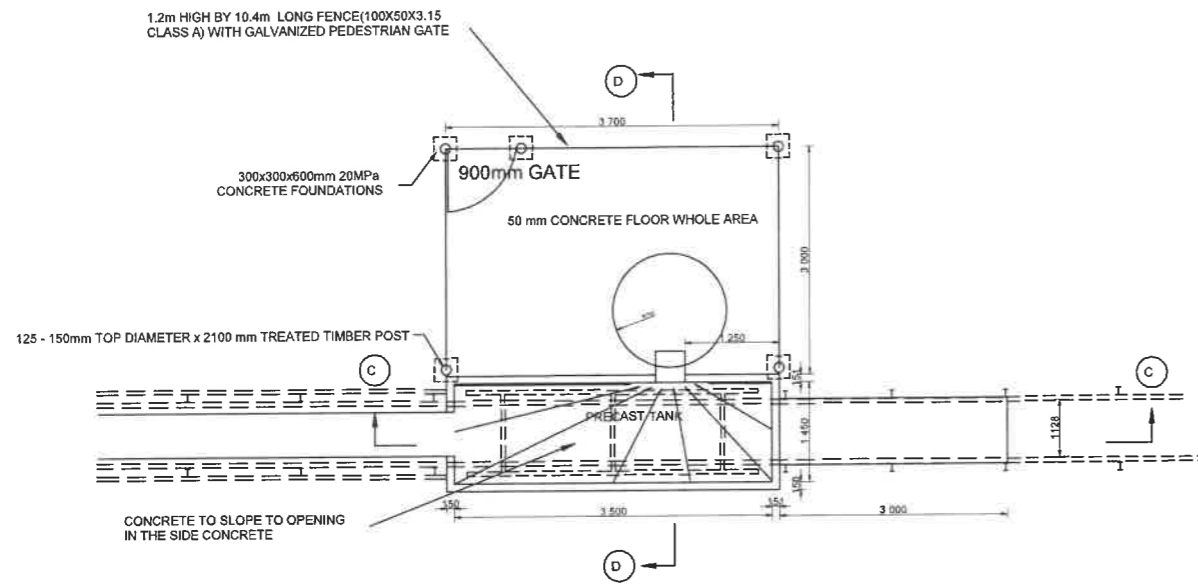


SECTION D-D

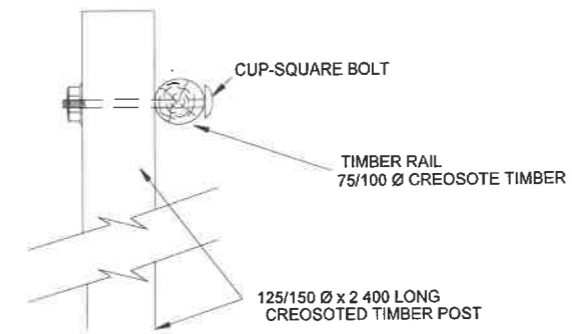


SECTION B-B

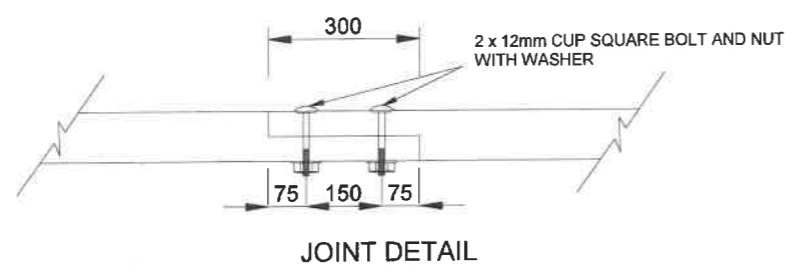
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		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	DETAILS 1	A3 ORIGINAL	PLAN NO. SHEET 2 OF 6



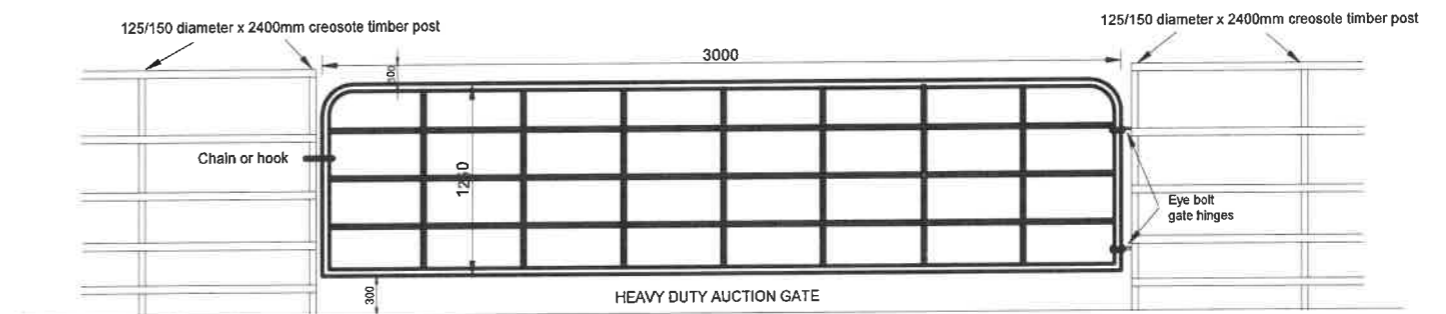
DETAIL 1



DETAIL 2

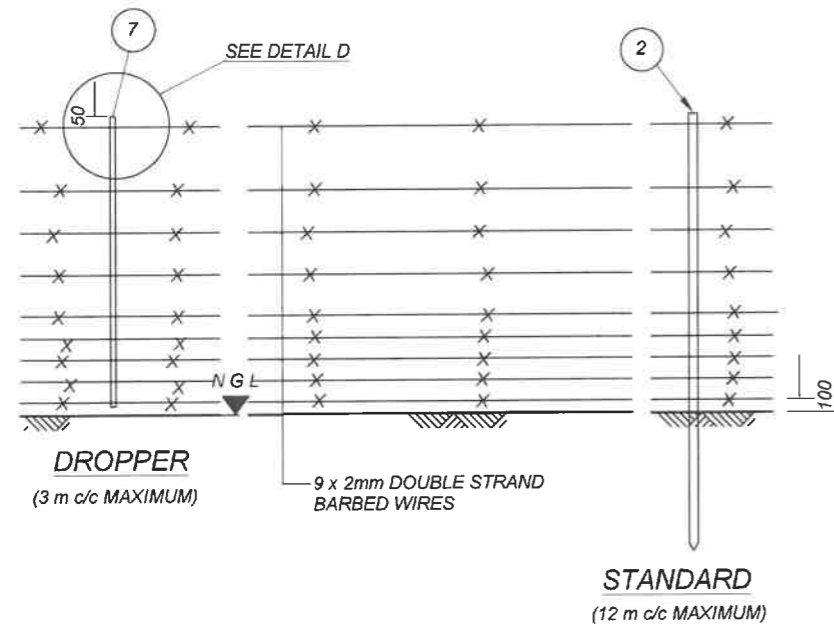


JOINT DETAIL

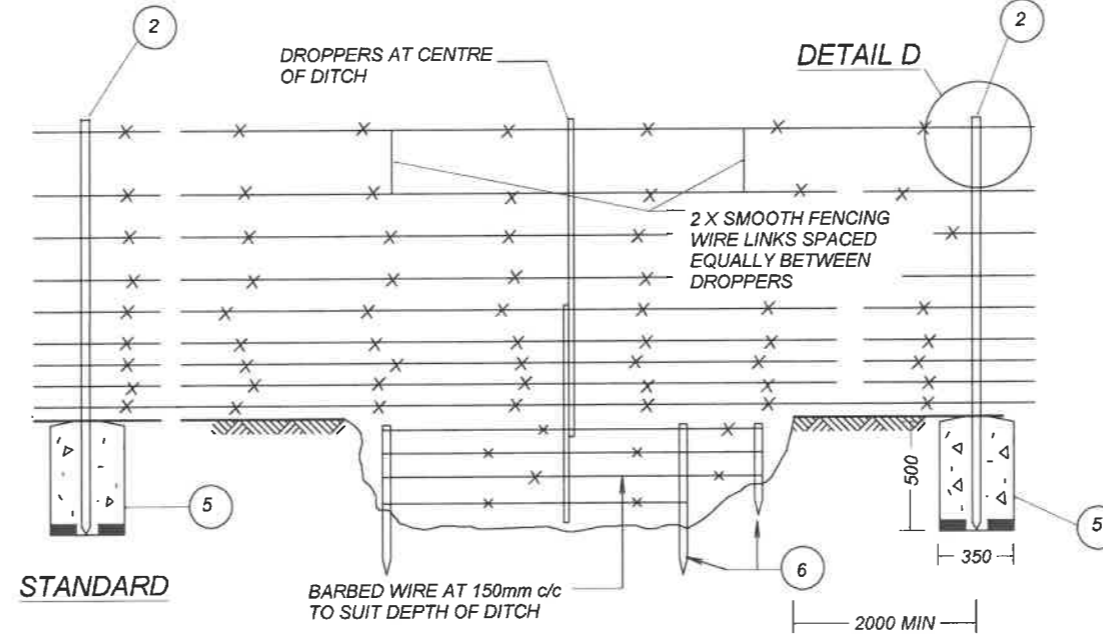


GATE DETAIL

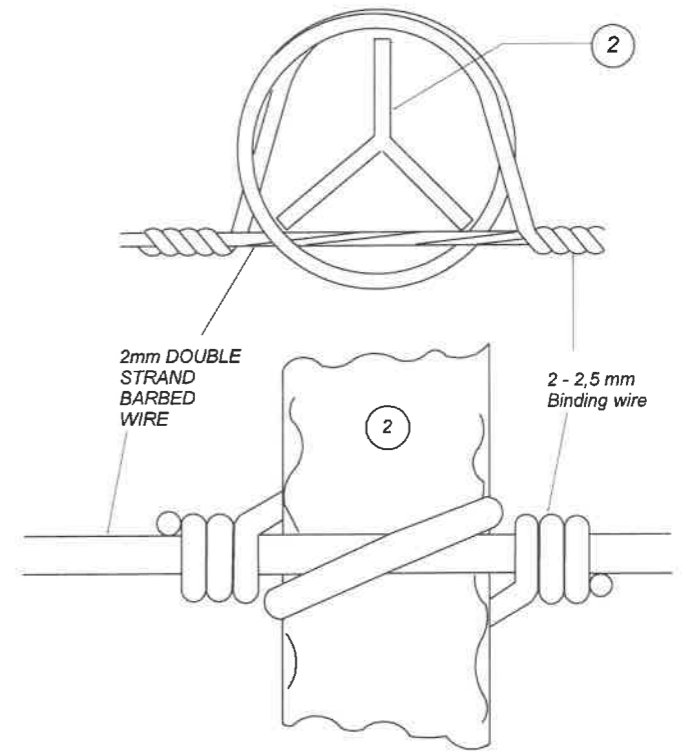
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				DECEMBER 2020 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	DETAILS 2



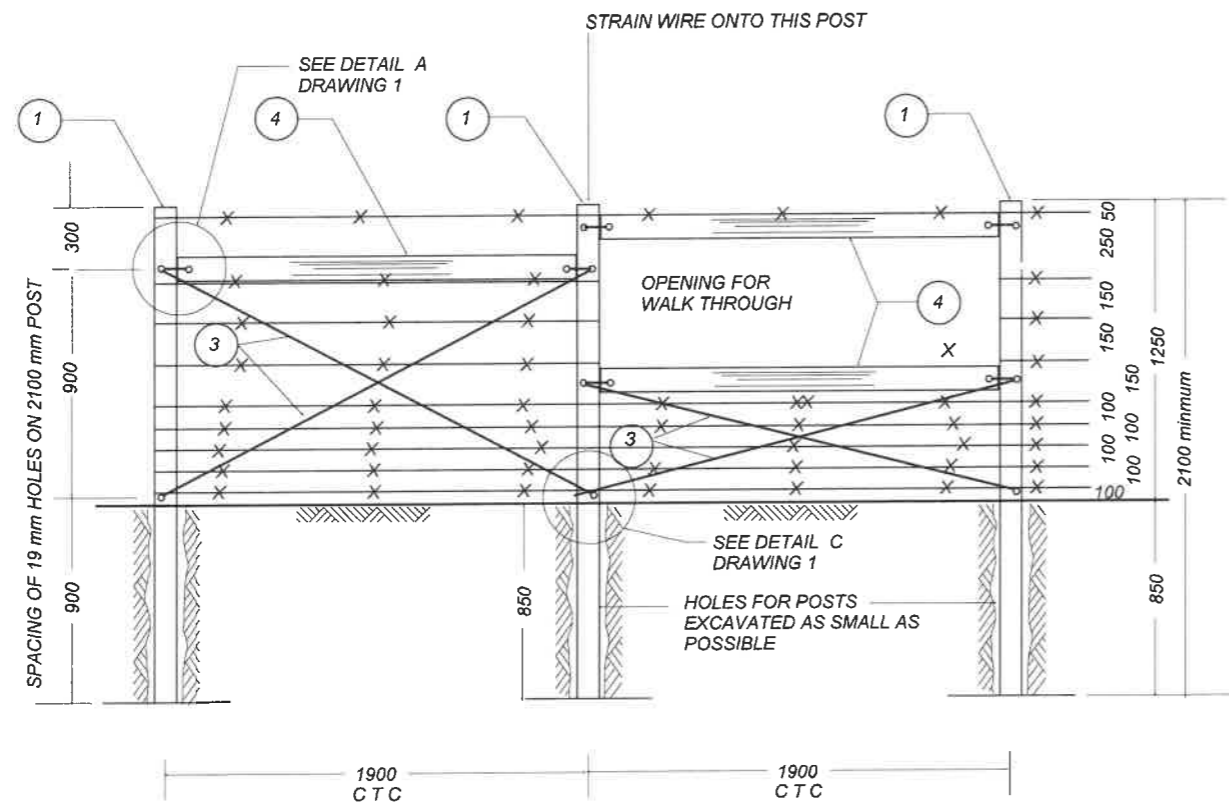
STOCK PROOF FENCE



CROSSING CANALS AND TRENCHES



DETAIL D



STRAINING POST with BOX ANCHOR WALKTHROUGH
(250m MAXIMUM SPACING)

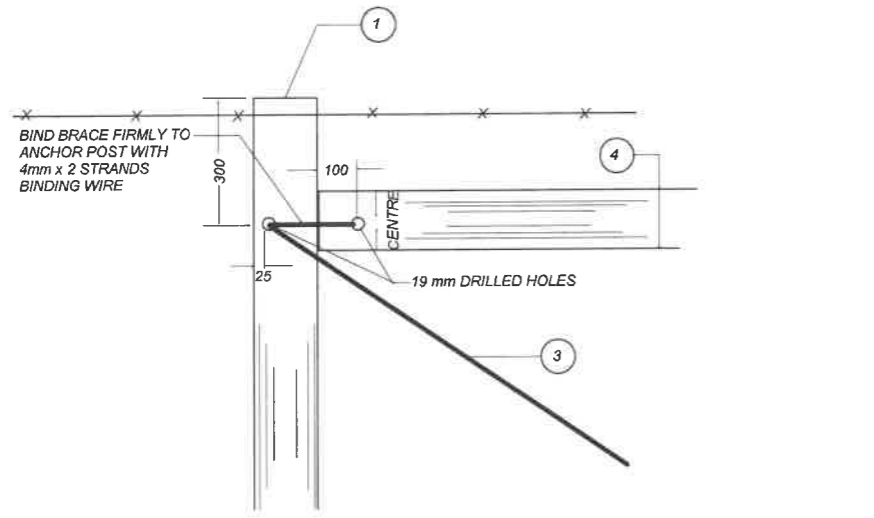
LEGEND

- 1 — 125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST CORNER, STRAINING AND ANCHOR POSTS
- 2 — 2,0 kg/m x 1800 mm Y SECTION IRON STANDARD
- 3 — 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- 4 — 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST BRACES IN BOX ANCHORS
- 5 — STANDARDS EMBEDDED IN CLASS 20/19 CONCRETE IF ORDERED BY THE ENGINEER
- 6 — STAKES (DROPPER PROFILE) OF SUITABLE LENGTH DRIVEN FIRMLY INTO SIDES & BED OF TRENCH AT APPROVED SPACINGS. STAKES TO BE ALIGNED WITH & TIED TO DROPPERS WITH WIRE WHERE REQUIRED.
- 7 — 0,56 kg/m x 1150 mm RIDGEBACK PATTERN IRON DROPPER

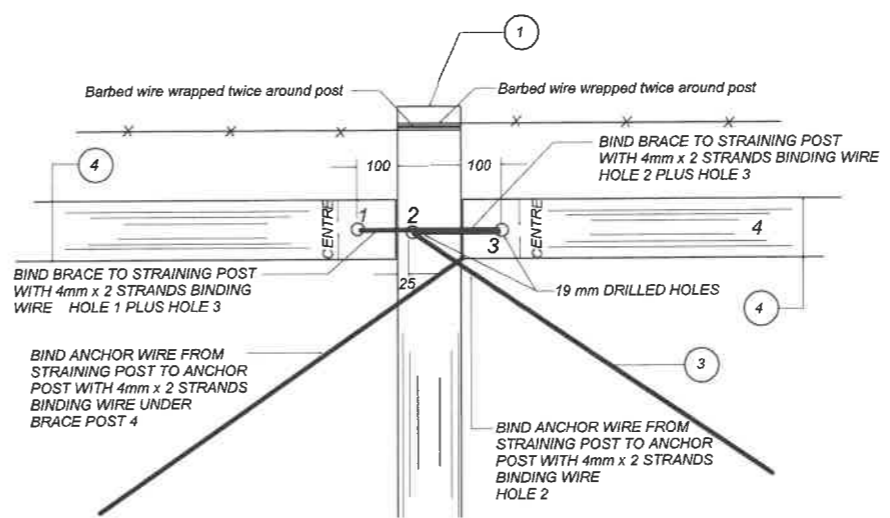
NGL NATURAL GROUND LEVEL

NOTES:
THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

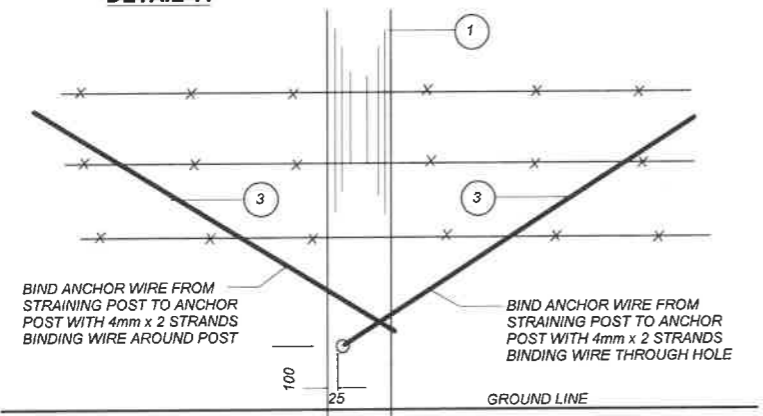
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					APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930
				POND FENCE - 1	A3 ORIGINAL	PLAN NO. SHEET 4 OF 6



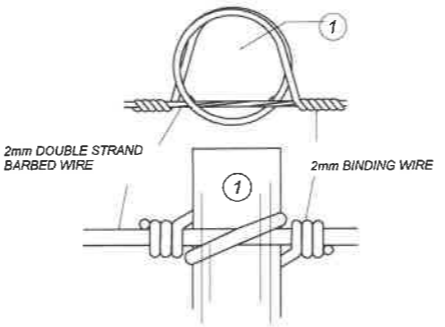
DETAIL A



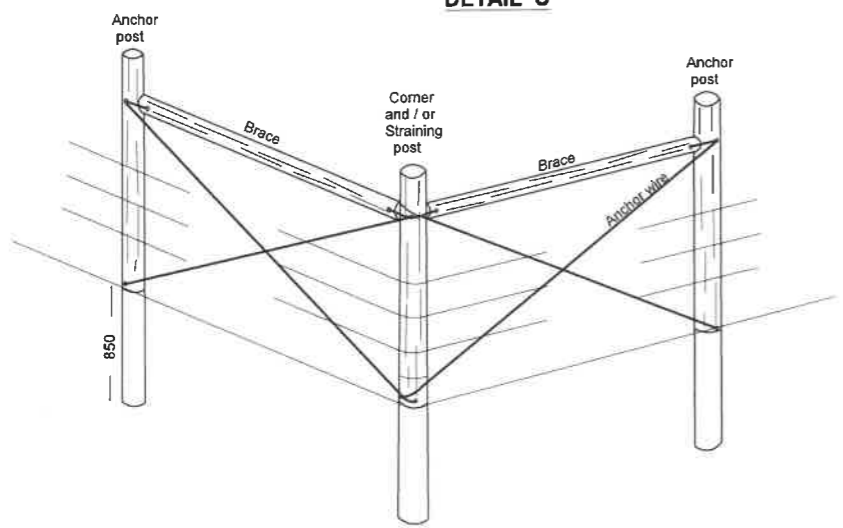
DETAIL B



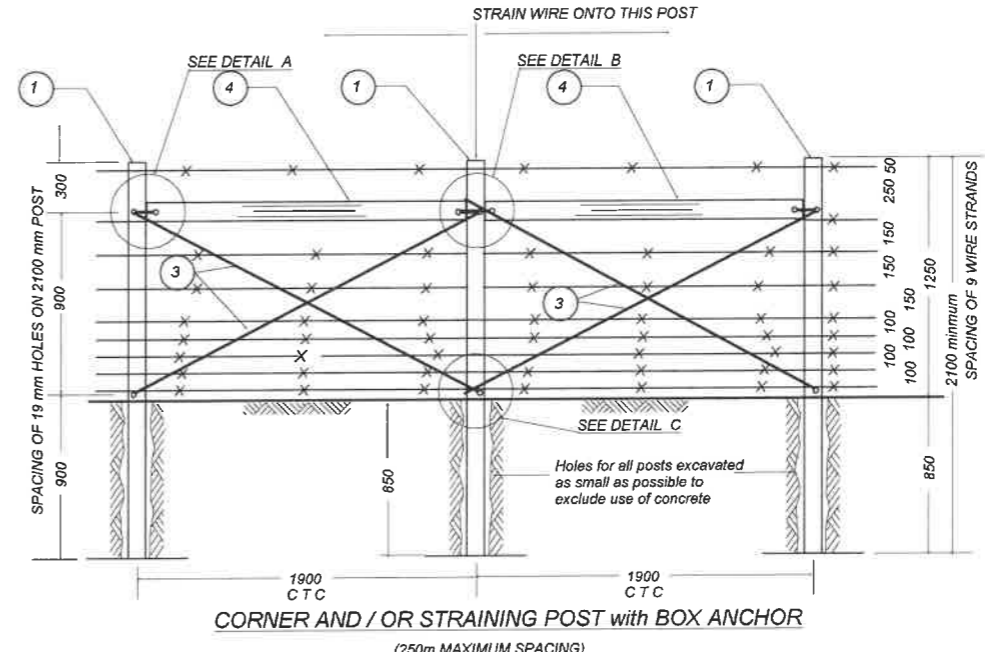
DETAIL C



DETAIL D



CORNER WITH BOX ANCHOR



LEGEND

1
125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST CORNER, STRAINING AND ANCHOR POSTS

3
4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE

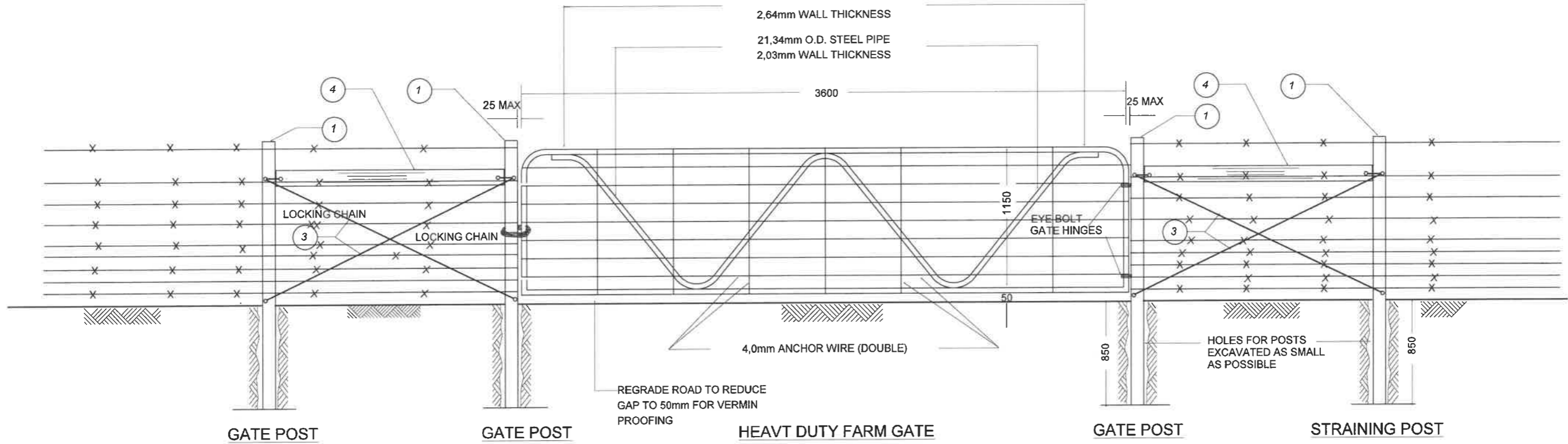
4
100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST BRACES IN BOX ANCHORS

NOTES:

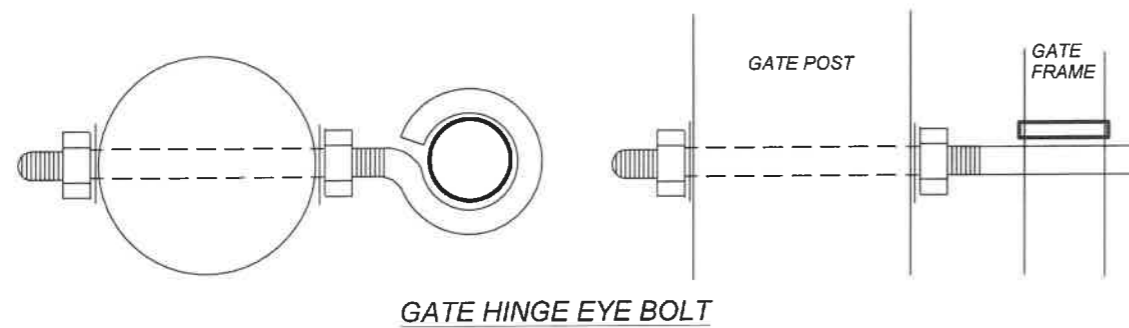
1. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

NGL NATURAL GROUND LEVEL

NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD SPRAY DIP (TIMBER)	SCALE	INDEX NO.
					NTS	SCMM-02/32/05
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	POND FENCE - 2	A3 ORIGINAL	PLAN NO. SHEET 5 OF 6



FARM GATES



LEGEND

- ① 125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST CORNER, STRAINING, GATE AND ANCHOR POSTS
- ③ 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- ④ 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST BRACES IN BOX ANCHORS

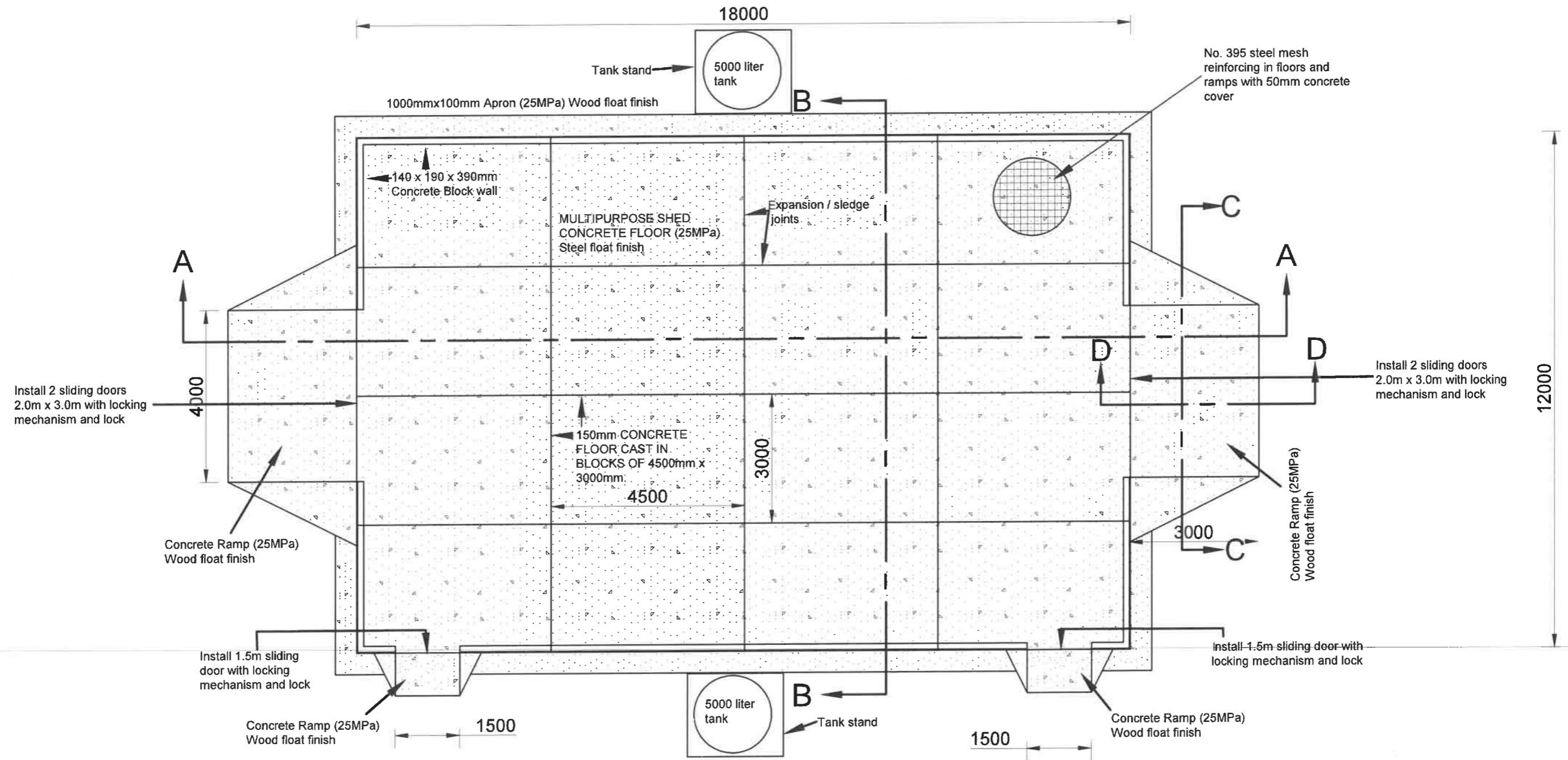
NGL NATURAL GROUND LEVEL

NOTES:

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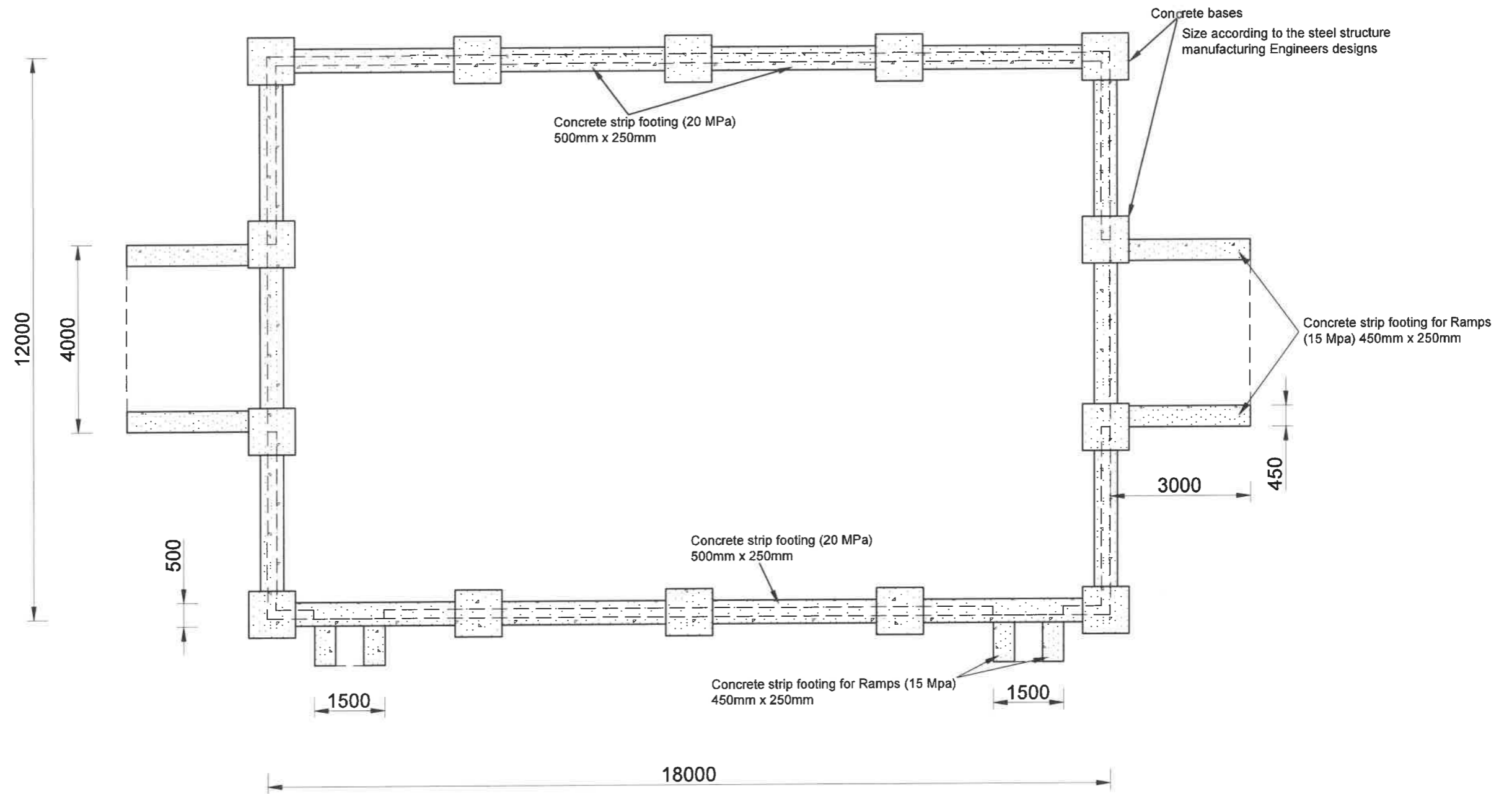
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				SITE LAYOUT PLAN	A3 ORIGINAL	PLAN NO. SHEET 6 OF 6
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			

33 STANDARD MULTI-PURPOSE SHED



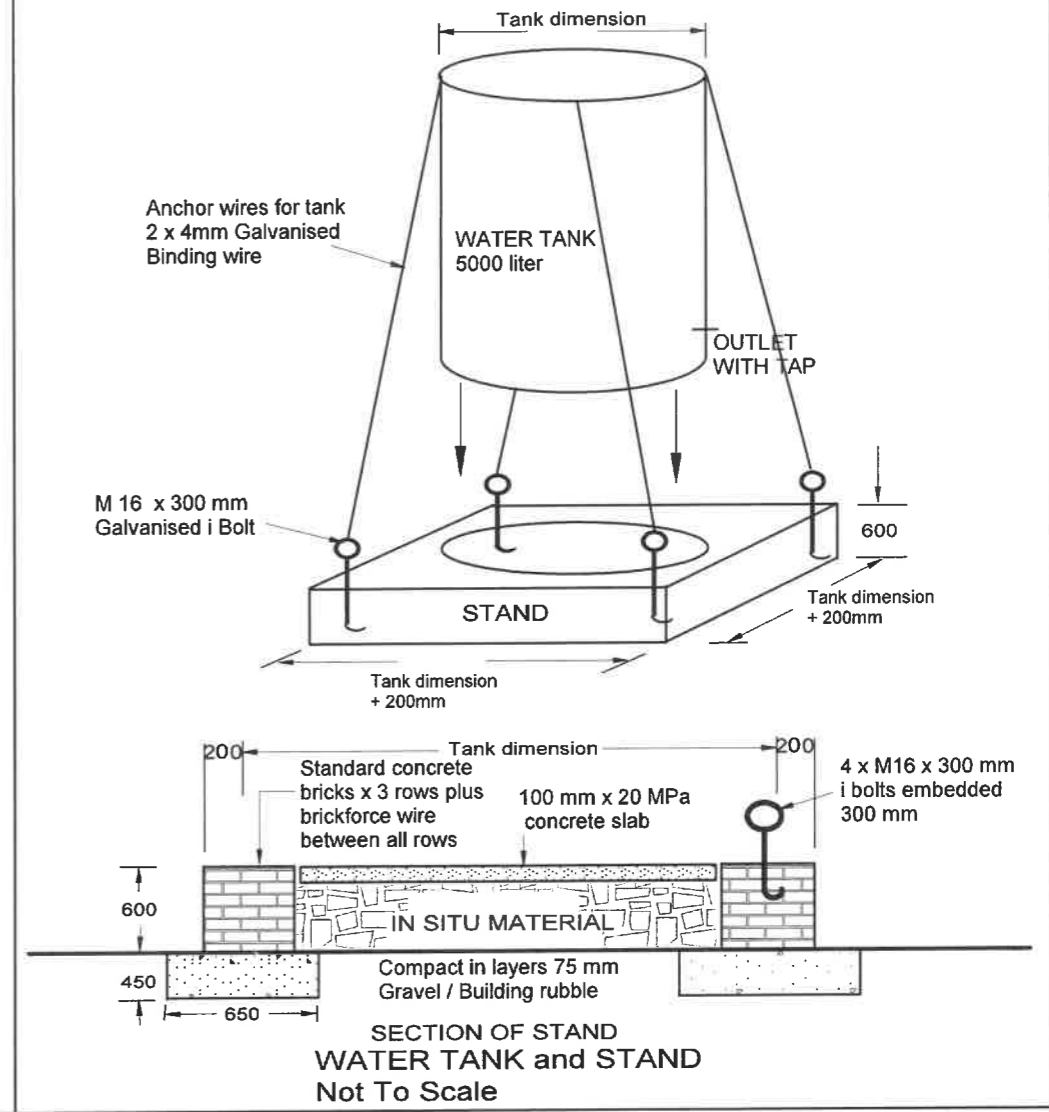
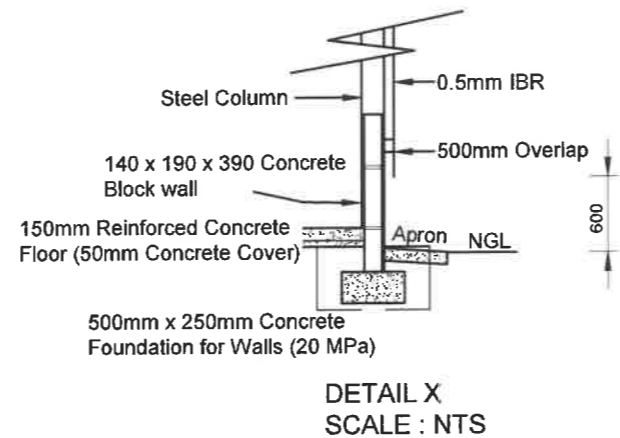
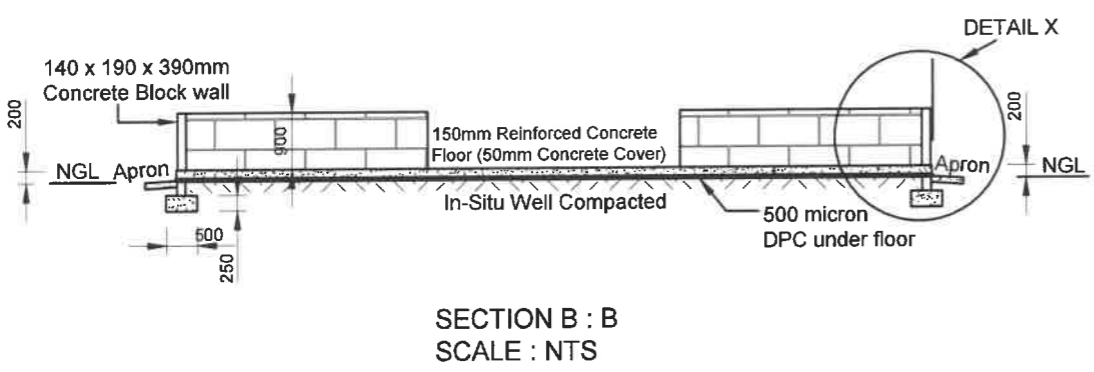
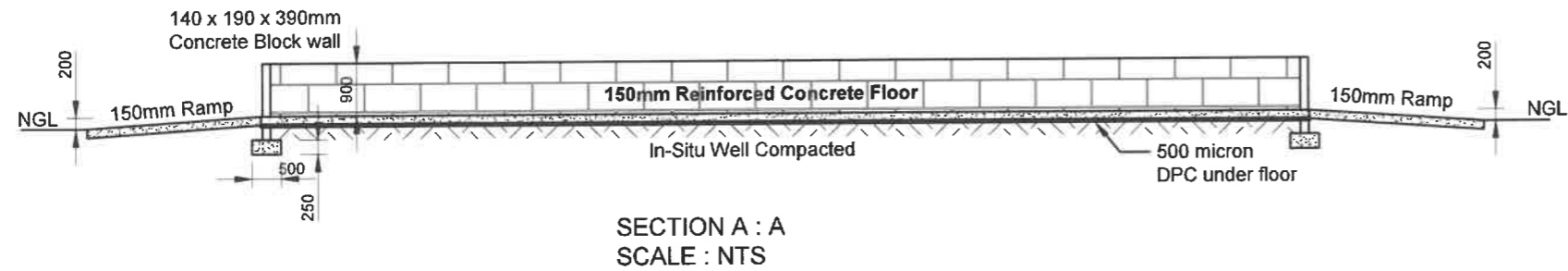
**FLOOR PLAN
SCALE 1 : 100 ON A3**

NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	MULTIPURPOSE SHED	SCALE	INDEX NO.
				FLOOR LAY-OUT PLAN	NTS	SCMM-02/33/01
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	A3 ORIGINAL		PLAN NO. SHEET 1 OF 4

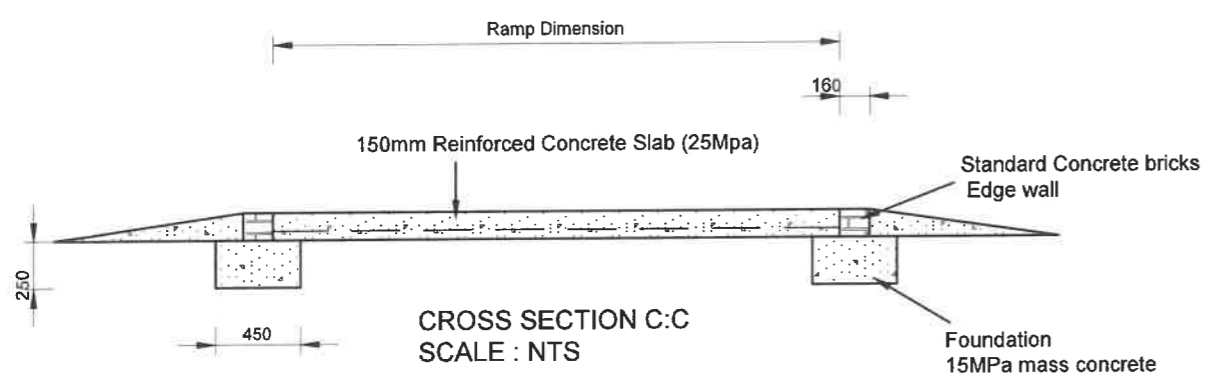


**FOUNDATION PLAN
SCALE 1 :100 ON A3**

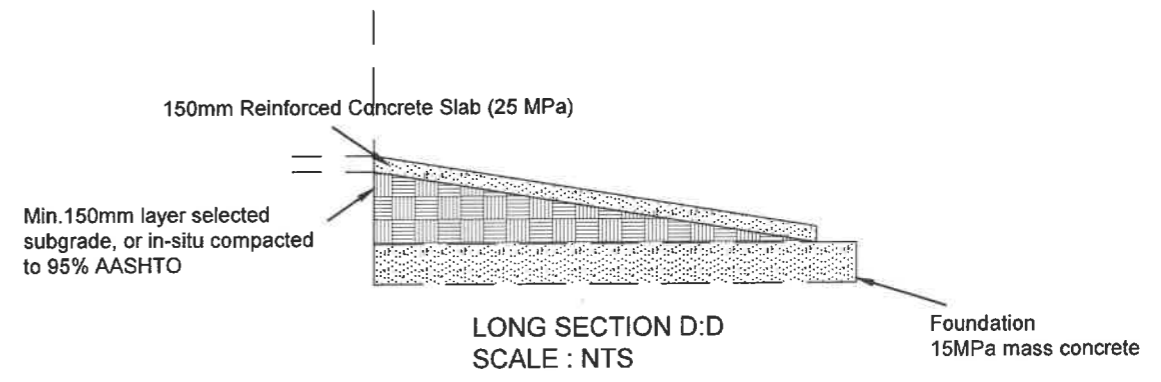
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				FOUNDATION PLAN		NTS	SCMM-02/33/02
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			A3 ORIGINAL	PLAN NO. SHEET 2 OF 4



DETAIL OF CONCRETE RAMP



Note:
Dimensions dependant on
site specific conditions



NO.	SPECIAL NOTES:

JPJ KOCH
(CHIEF ENGINEER)

APRIL 2022
(DATE APPROVED)

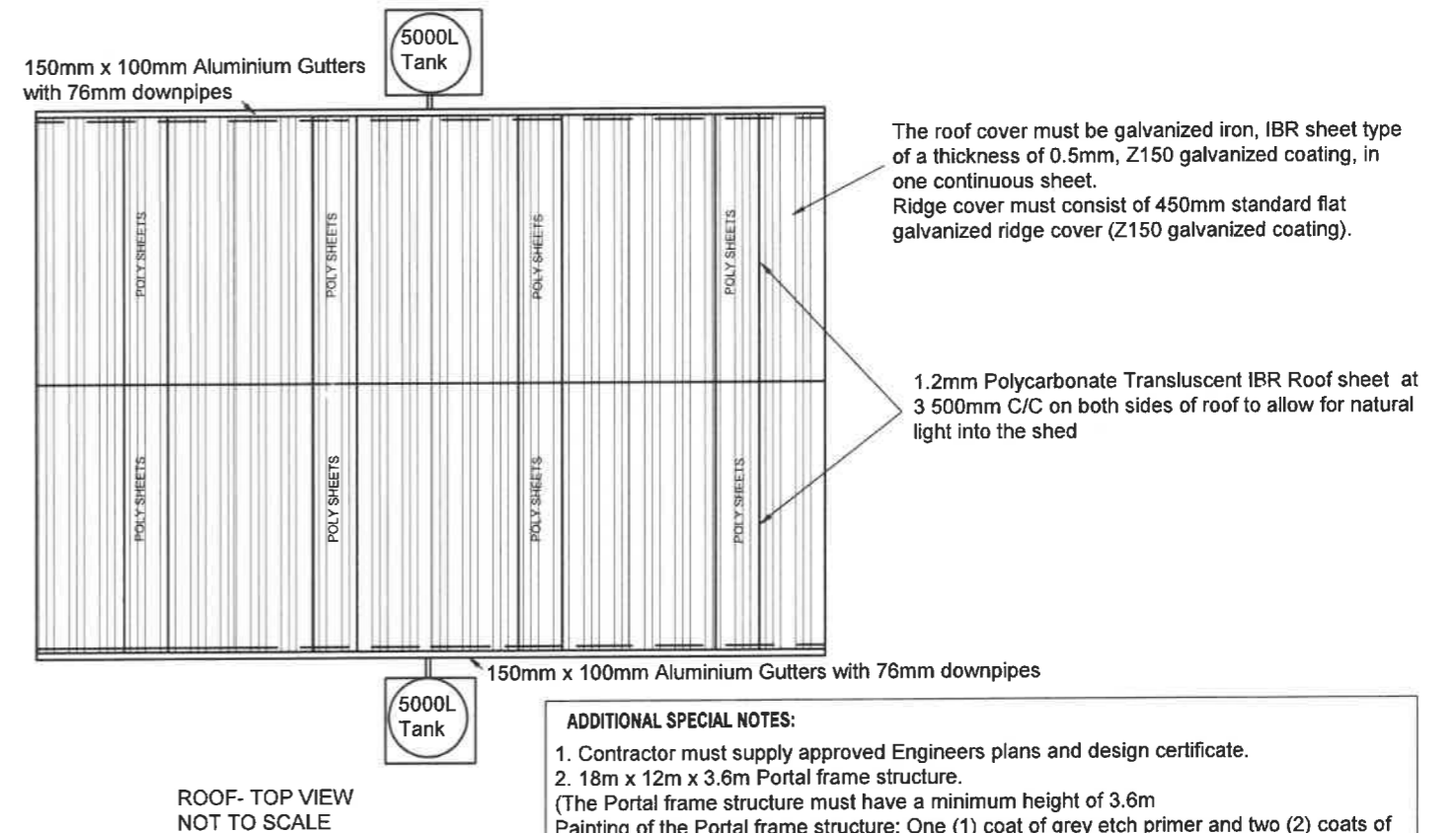
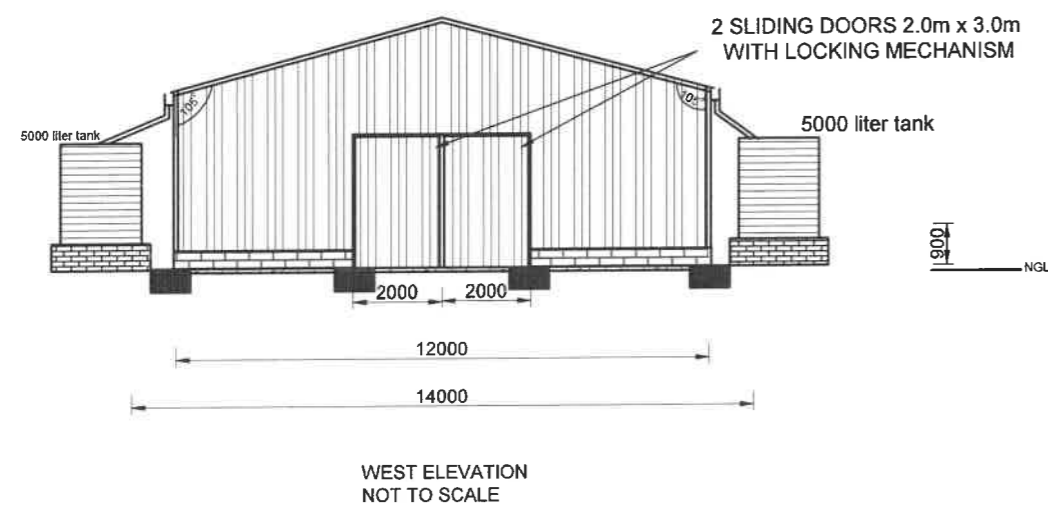
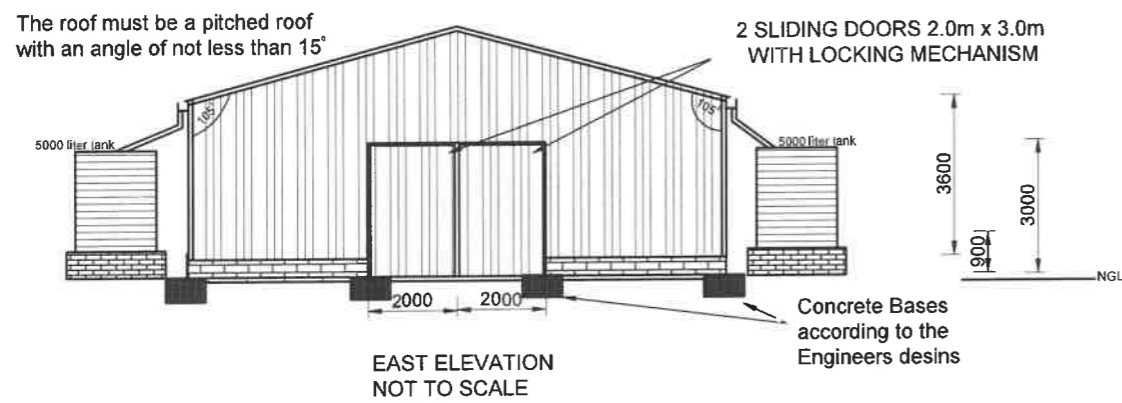
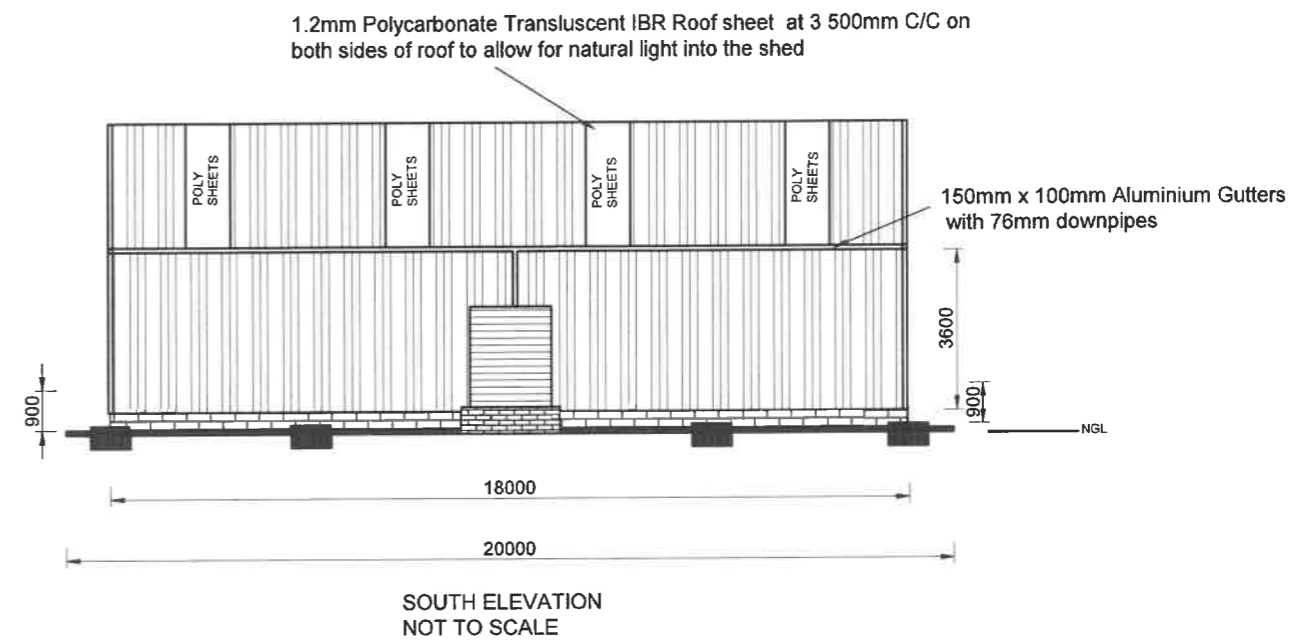
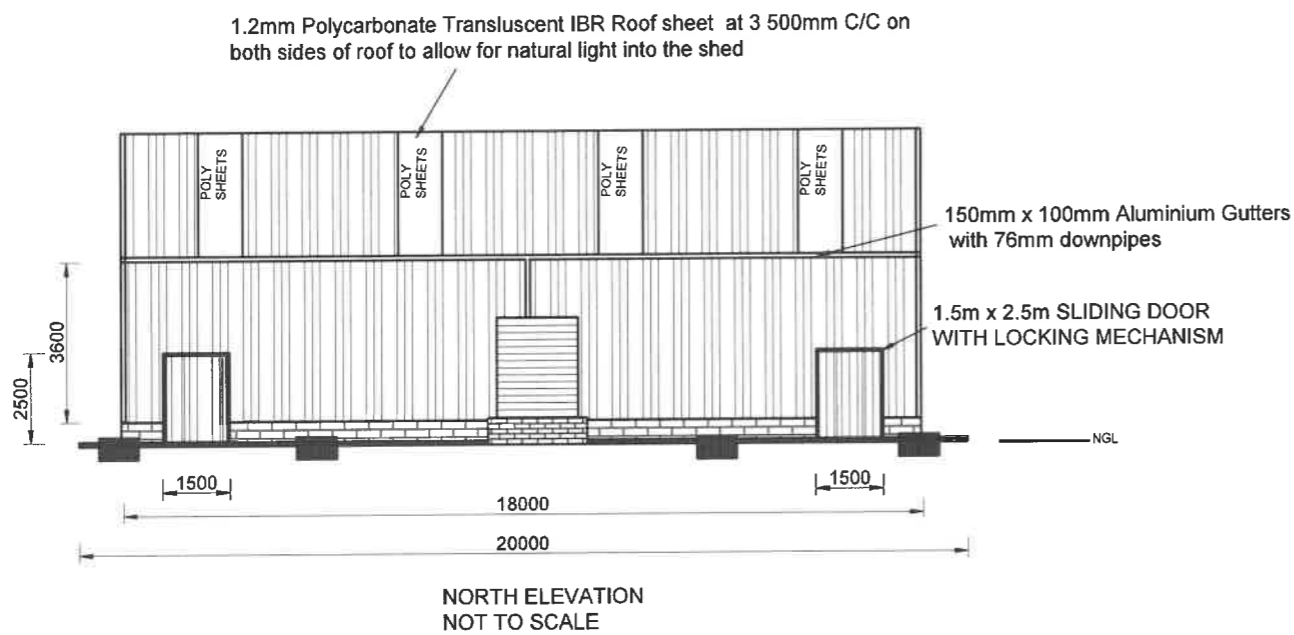
**DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM
PROVINCE OF THE EASTERN CAPE**

ENGINEERING SERVICES
PRIVATE BAG X015
DOHNE ADI
STUTTERHEIM
4930

MULTIPURPOSE SHED

SECTIONS AND TANK STAND

SCALE NTS	INDEX NO. SCMM-02/33/03
A3 ORIGINAL	PLAN NO. SHEET 3 OF 4

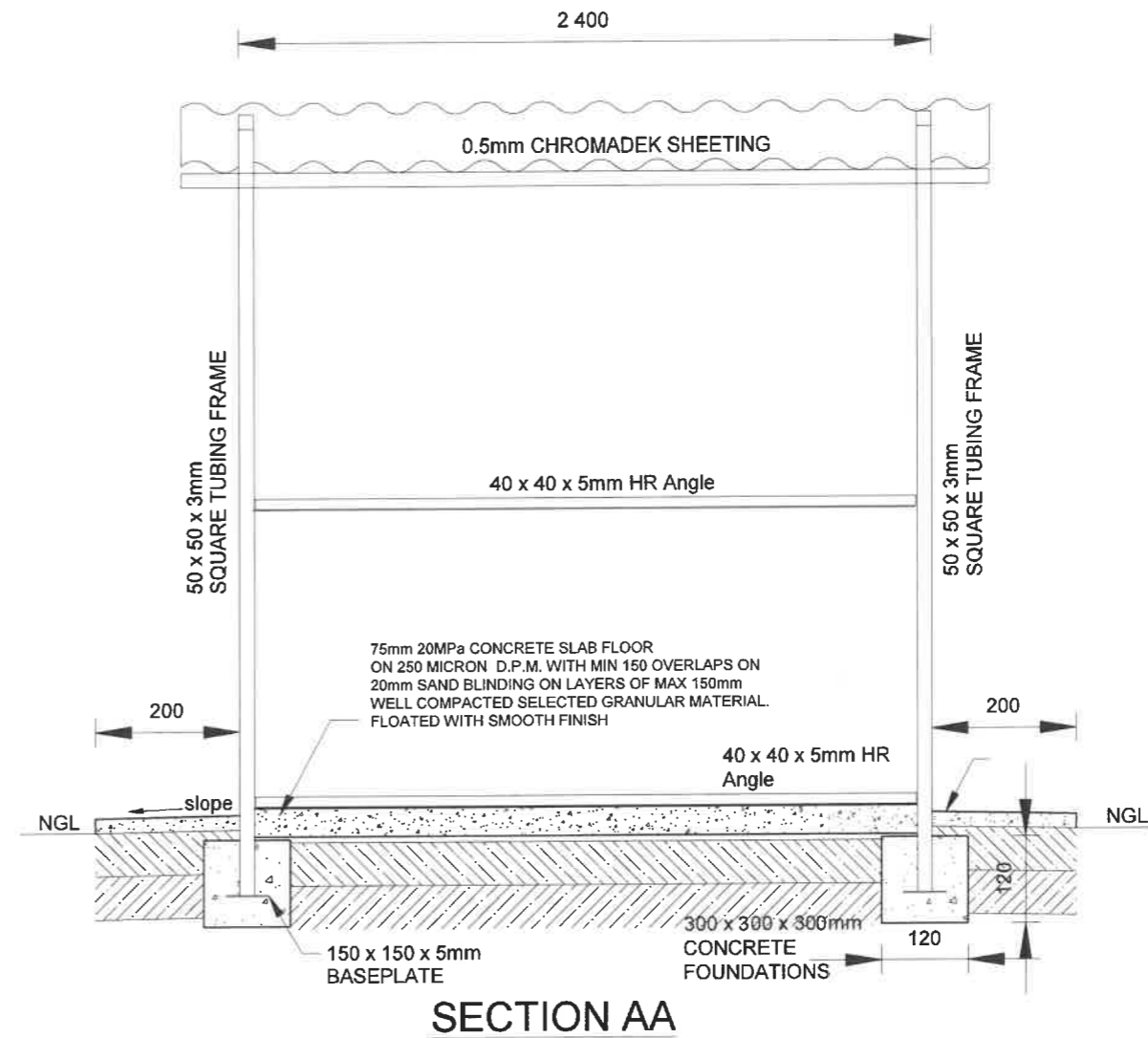
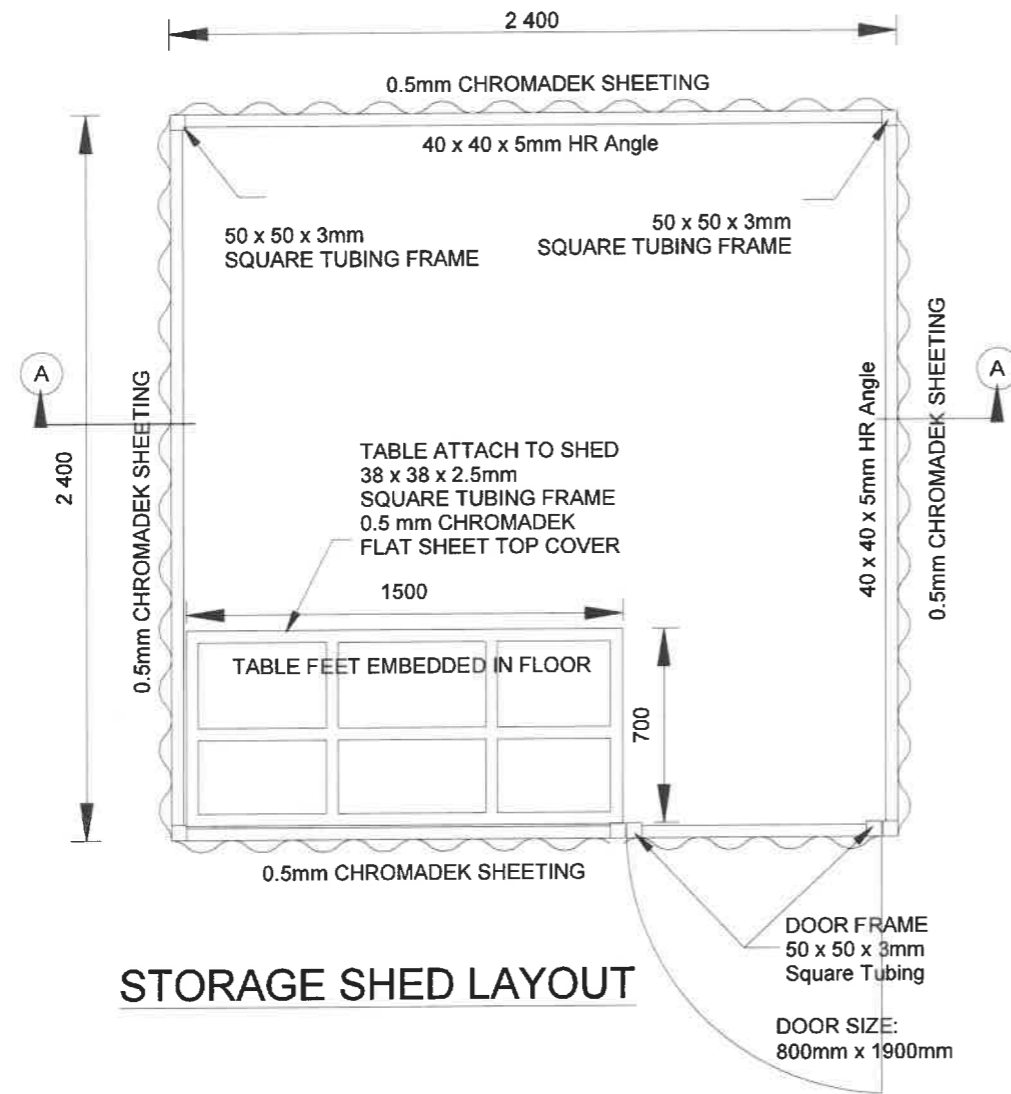


ADDITIONAL SPECIAL NOTES:

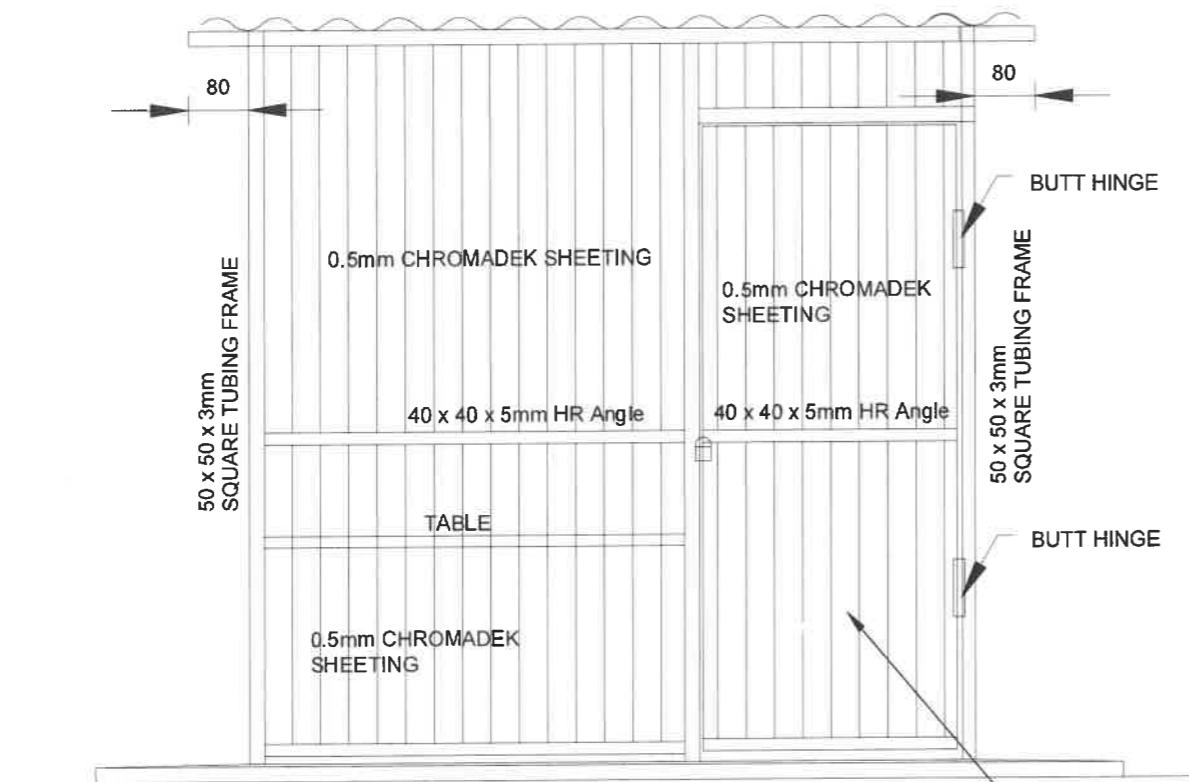
- Contractor must supply approved Engineers plans and design certificate.
- 18m x 12m x 3.6m Portal frame structure.
(The Portal frame structure must have a minimum height of 3.6m)
- Painting of the Portal frame structure: One (1) coat of grey etch primer and two (2) coats of QD enamel to the columns, rafters and bracings.
- 0.5mm IBR cladding - Z150 Galvanized coating
- 2 x 2m sliding doors, to open to both sides, on gable ends, according to the Engineers designs.
- 2 x 1.5m sliding doors according to the Engineers designs, as indicated on floor plan.
- 140 x 190 x 390mm concrete blocks built up to 900mm above floor level.
- IBR to overlap block wall by atleast 500mm.
- 8 x Polycarbonate Translucent IBR sheets (1.2mm) to be fitted on the roof, 4 on each side.
- 150mm x 100mm Aluminium Gutters with 76mm downpipes.

NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	MULTIPURPOSE SHED	SCALE NTS	INDEX NO. SCMM-02/33/04
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	ELEVATIONS	A3 ORIGINAL	PLAN NO. SHEET 4 OF 4

34 DIP TANK STORAGE SHED

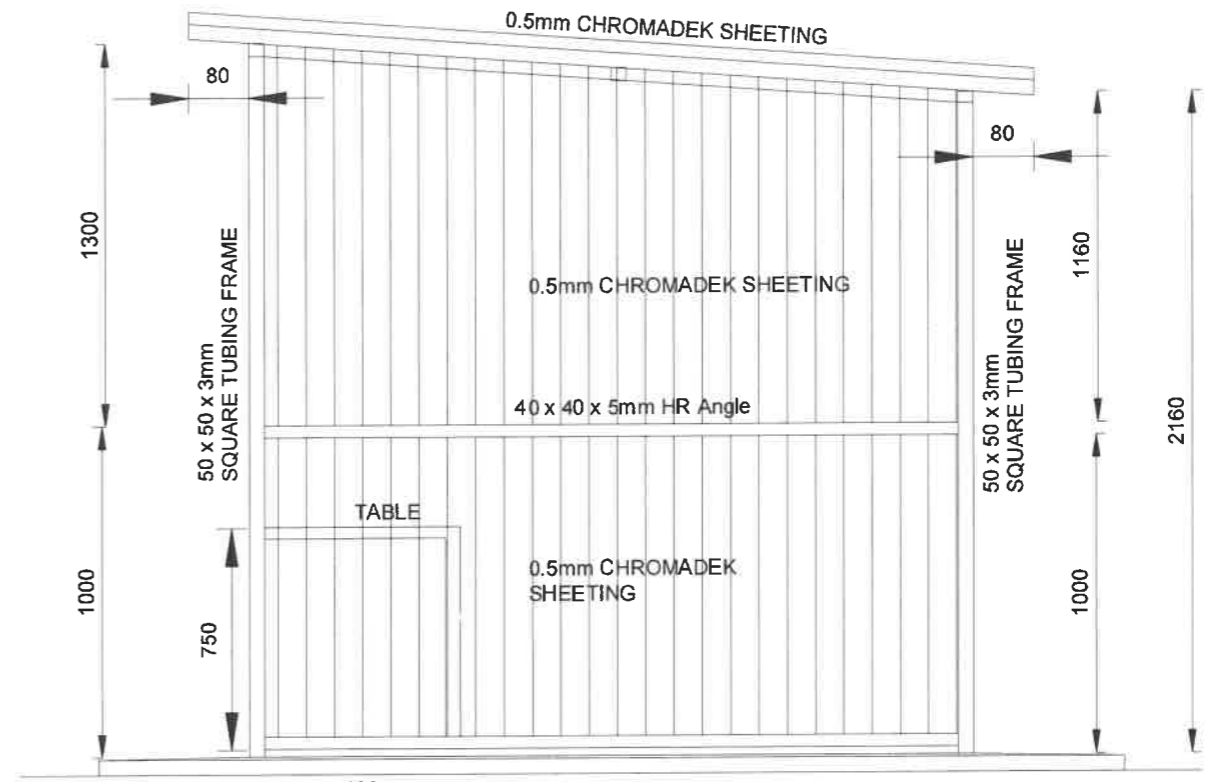


NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	DIP TANK STORAGE SHED	SCALE NTS	INDEX NO. SCMM-02/34/01
				PLAN LAY OUT	A3 ORIGINAL	PLAN NO. SHEET 1 OF 2
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			



FRONT ELEVATION

DOOR SIZE:
800mm x 1900mm



SIDE ELEVATION

NO.	SPECIAL NOTES:	JPJ KOCH (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	DIP TANK STORAGE SHED	SCALE NTS	INDEX NO. SCMM-02/34/02
		APRIL 2022 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADJ STUTTERHEIM 4930	ELEVATIONS	A3 ORIGINAL	PLAN NO. SHEET 2 OF 2