CLIENT :-

KOUGA MUNICIPALITY

PROJECT :-

PROPOSED SPORTS RECREATION PLAYING-AREA AND BUILDING FACILITIES ON ERF 2551, SEA VISTA, ST FRANCIS BAY.

DRAWN :- K.E.E. ACKERMANN

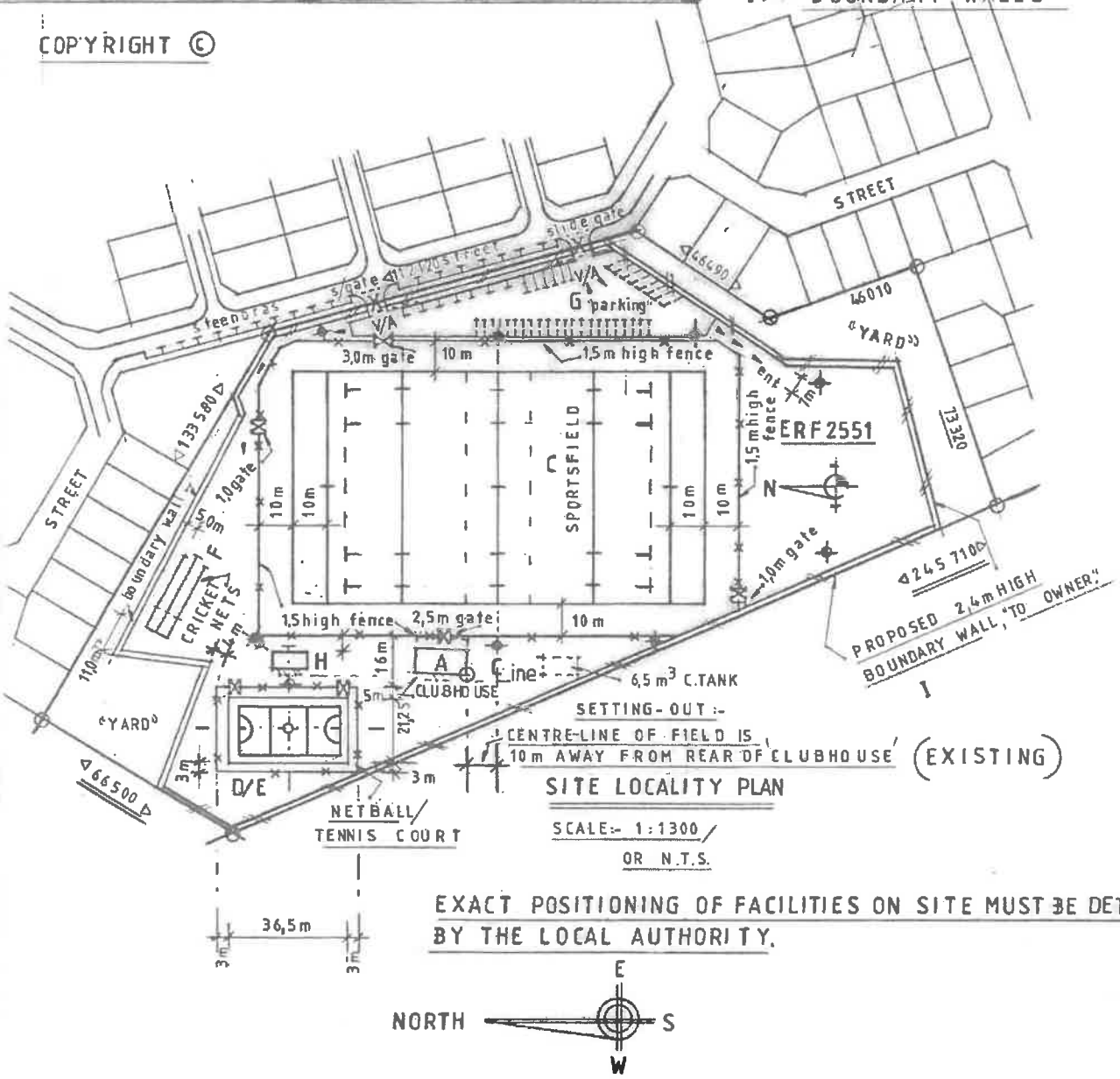
DESIGN :- K.E.E. ACKERMANN

DATE :- JUNE 2018

CHECKED :-

LEGEND :-

A ▷ CLUBHOUSE / CHANGEROOMS
B ▷ CARETAKER'S DWELLING
C ▷ SPORTSFIELD
D ▷ NETBALL COURT
E ▷ TENNIS COURT
F ▷ PRACTICE CRICKET NETS
G ▷ PARKING AREA
H ▷ ABLUTION FACILITIES
I ▷ BOUNDARY WALLS

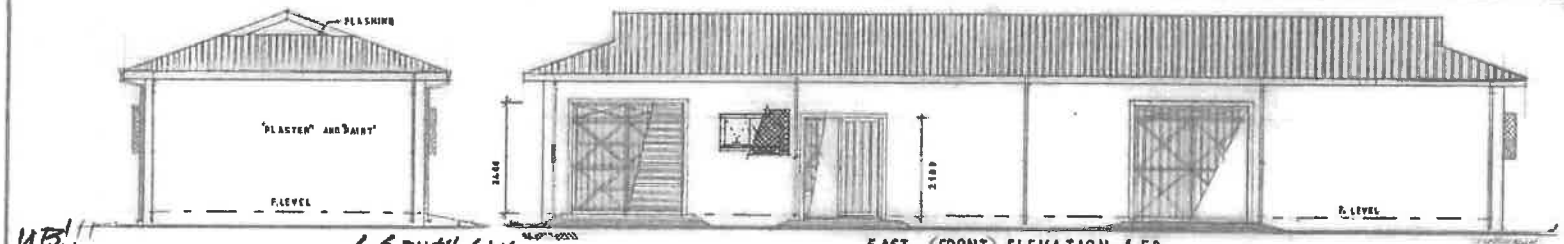


EXACT POSITIONING OF FACILITIES ON SITE MUST BE DETERMINED BY THE LOCAL AUTHORITY.

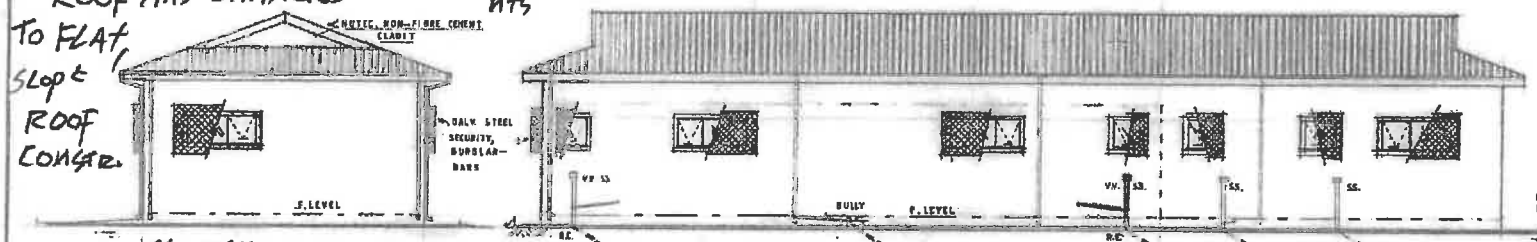
TO BE READ IN-CONJUNCTION-WITH OTHER LAYOUT PLANS.

SHEET NO 1 OF SHEETS

DRAWING Nº



EAST (FRONT) ELEVATION 1:50



WEST (REAR) ELEVATION 1:50

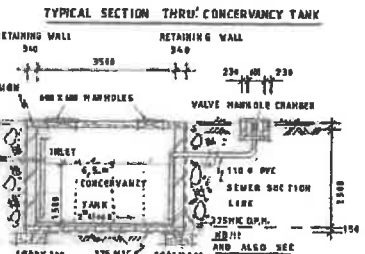
UBJ!! ROOF HAS CHANGED TO FLAT SLOPE ROOF CONCR.

SOUTH ELN. NTS

NORTH ELN. NTS

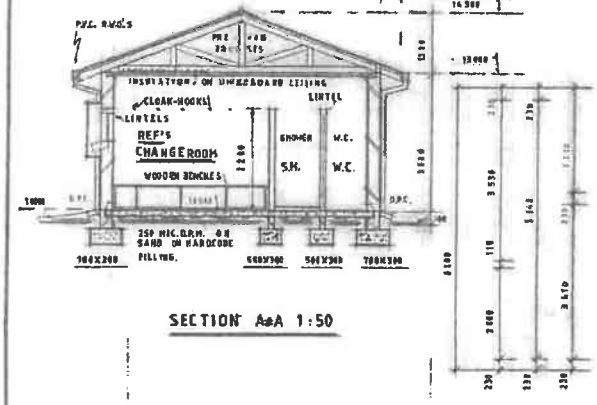
MIRROR SEWER LINE

TYPICAL SECTION THRU' CONCERVANCY TANK

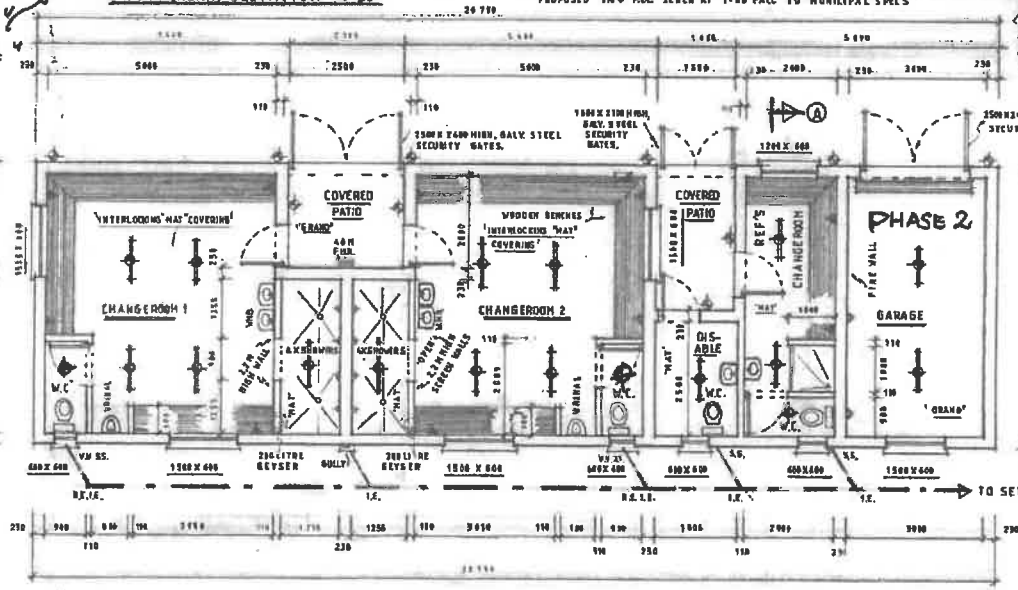


ATTACHED TYPICAL CONCERVANCY TANK PLANS AND SPEC'S.

WALLS TO BE PLASTERED AND WATERPROOFED ON PRE INSIDE.



SECTION A&A 1:50



GROUND STOREY FLOOR PLAN 1:50

A ▷ CLUBHOUSE / CHANGEROOMS

ROOF CONSTRUCTION :- ("see attached schedule") zone 4 :- upwards heatflow :- r-value = 3.7 m2. k/ w.

Chromadek L.B.R. profile or equal approved continuous lenght galvanized metal sheeting, painted, on 50 x 75 s.a.p. purlins at 1,0 m c.t.c. on steelion

3,35 m2. k/ w. r-value, reflective foil, laminates, insulation

All timber to be grade 5 timber.

P.V.C RAINWATER GOODS I.E. GUTTERS AND DOWNPIPES.

NON - FIBRE CEMENT, MUTEC, FASCIA BOARDS. (s.a.b.s. approved)

NB!! ALL WORK MUST BE IN COMPLIANCE WITH THE NATIONAL BUILDING REGULATIONS AND BUILDING STANDARDS ACT NO.103 OF 1977 AND TO COMPLY WITH ALL PARTS OF SANS 10400 STANDARDS.

AND SANS 10400 XA, SANS 204, SANS 10252-1 CODE OF PRACTICES AND STANDARDS.

CEILING :- ("see attached schedule")

Rhinoboard ceiling board on 38 x 38 s.a.p. branderings at 400 c.t.c.

PROVIDE 140 MM THICK, PINK - AEROLITE INSULATION INTO CEILING.

AREA :-

EXISTING BUILDING = 81 m²

PROPOSED EXTENSION = 46 m²

GRAND TOTAL = 127 m²

DATE :- JULY 2019

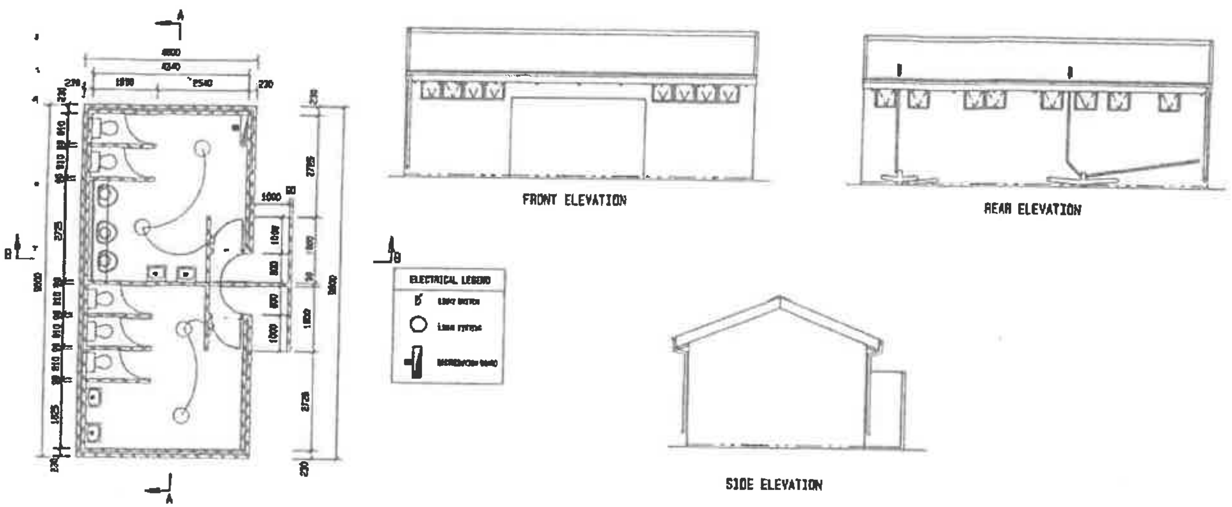
SCALES 1:50

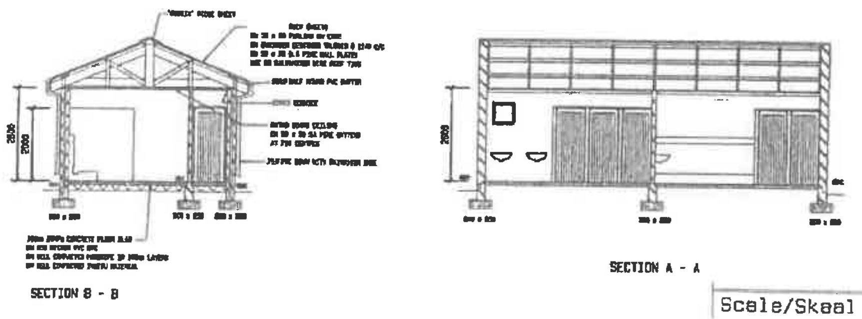
CLIENT :-
KOUGA MUNICIPALITY

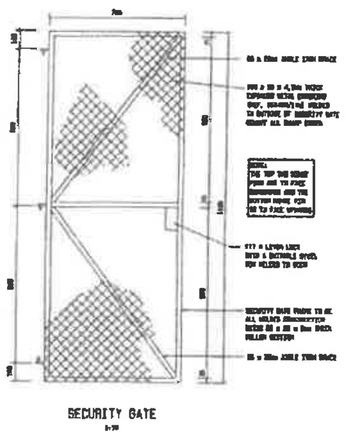
PROJECT :-
PROPOSED SPORTS RECREATION PLAYING AREA AND BUILDING FACILITIES ON ERF 2551, SEA VISTA, ST FRANCIS BAY

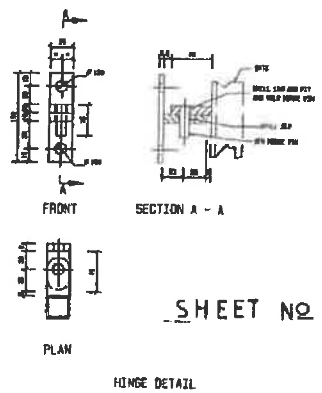
DRAWN :- K.E.E. ACKERMANN
DESIGN :- K.E.E. ACKERMANN
DATE :- JUNE 2019
CHECKED :-

SHEET Nº 2 OF SHEETS









Scale/Skaal | Date/Datum

SHEET No 3 OF SHEETS

NOTE:
ALL DIMENSIONS TO BE CHECKED ON SITE BEFORE COMMENCING ANY WORK. ANY DISCREPANCIES MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE STARTING ANY WORK

SPECIFICATIONS:

1. FOUNDATIONS:
a. FOUNDATIONS ARE TO BE EXCAVATED TO DEPTHS AND DIMENSIONS SHOWN ON DRAWING. TRENCHES TO BE FINISHED NEAT AND SQUARE WITH NO LOOSE MATERIAL.
b. FILLING IN TRENCHES AROUND WALLS AND UNDER FLOORS TO BE COMPACTED TO 93% MOD AASHTO DENSITY

2. CONCRETE:
a. 15MPa/19mm CONCRETE TO FOOTINGS.
b. FILL CAVITY IN BLOCKS TO FOUNDATIONS WALLS SOLID WITH 10MPa/13mm CONCRETE AS THE WORK PROCEEDS.
c. 75mm THICK 20MPa/19mm CONCRETE ON WATERPROOF MEMBRANE ON 50mm SAND LAYER ON COMPACTED FILL (93% MOD AASHTO) FOR SURFACE BED. STEEL FLOAT FINISH TO TAKE FLOOR TILES.

3. BLOCKWORK:
a. ALL BLOCKWORK TO BE BUILT TO DIMENSIONS AND POSITIONS SHOWN ON DRAWINGS.
b. BLOCKWORK SHALL BE BUILT FAIR AND POINTED WITH SQUARE RECESSED JOINTS 6mm DEEP.
c. ROOF TRUSSES SHALL BE FIXED AT EACH SUPPORT WALL WITH 1,6mm x 32 WIDE GALVANIZED HOOP IRON TIES BUILT 3 COURSES DEEP INTO BLOCKWORK AND WRAPPED OVER THE TRUSSES AND FIXED WITH GALVANIZED NAILS 40mm LONG.

4. WATERPROOFING:
a. LAY 250 MICRON POLYETHELENE SHEETING IN WIDEST POSSIBLE WIDTHS OVER SAND BED, TURNED UP AT THE EDGES AGAINST WALLS MINIMUM OVERLAPS AT JOINTS TO BE 300mm.
b. LAY 375 MICRON "BRICKGRIP" SHEETING UNDER ALL WALLS EQUAL TO FULL WALL THICKNESS, BELOW CILLS, IN REVEALS etc.

5. CARPENTRY:
a. LAY 38 x 114mm SAWN SA PINE WALL PLATES ON TOP OF WALLS WHERE REQUIRED BY THE MANUFACTURERS OF THE PREFABRICATED ROOF TRUSSES. BED IN MORTAR.
b. PREFABRICATED ROOF TRUSSES MUST BE FIXED IN POSITION WITH ROOF TIES AT MAXIMUM CENTRES AS PER DETAIL. PRICE MUST INCLUDE FOR ALL FIXING AND BRACING.
c. RAFTERS FOR THE ROOF OVERHANG SHALL BE OF SOUND TIMBER OF SIZE 114 x 50mm OR 114 x 76 AS SHOWN ON DRAWING.
d. PURLINS SHALL BE 38 x 50mm ON EDGE.
f. DOOR SHALL BE 44mm FLB MERANTI HARDWOOD DOOR HUNG ON ONE PAIR OF 100mm BRASS BUTT HINGES AND FITTED WITH A FOUR LEVER LOCKSET WITH 2 KEYS.

6. ROOF COVERING:
a. ROOF COVERING SHALL BE · CORRUGATED ROOF SHEETS LAID IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS AND FITTED WITH PLAIN RIDGE SHEET.
b. BARGE BOARDS SHALL BE FC SOCKETLESS BARGE BOARDS 275 x 80mm
c. FACIAS SHALL BE 300 x 10mm FC FACIAS.

7. CEILINGS:
a. CEILINGS SHALL BE 6,4mm RHINOBOARD CEILINGS WITH H-PROFILE PVC JOINTING STRIPS. CEILINGS TO BE FIXED TO 38 x 38 BRANDERING AT 400mm CENTRES IN ONE DIRECTION.
b. CORNICES SHALL BE 75mm COVED RHINO CORNICES.

8. WINDOWS:
a. OPENING WINDOW TO BE KINGLOCK WDS.100 FITTED WITH CONVENT INVERT TOP HUNG ALUMINIUM FRAME WITH 3mm CLEAR/FROSTED GLAZING.

9. FLOOR COVERING:
a. TO ABLUTION BLOCK FLOOR.

10. METALWORK:
a. ALL METALWORK TO BE HOT DIPPED GALVANISED AFTER MANUFACTURE AND BEFORE ERECTION.
b. CARE MUST BE TAKEN NOT TO DAMAGE GALVANISING DURING ERECTION PROCESS.

11. PAINTING:
a. PAINT ON PRODUCTS:
i. WASH DOWN WITH CLEAN WATER TO REMOVE DUST.
ii. FIRST COAT: DURA 85 MATT ACRYLIC THINNED 10% WITH CLEAN WATER.
iii. COAT 2 & 3: DURA 85 MATT ACRYLIC: FULL COAT.
iv. ROOF COLOUR: GREEN TO MATCH STEELWORK.
v. BARGE BOARD AND FACIA COLOUR: WHITE.

b. PAINT ON CEILINGS:
i. FIRST COAT: APPLY DURA 85 THINNED 10% WITH CLEAN WATER.
ii. COAT 2 & 3: DURA 85 FULL COAT: COLOUR WHITE

c. PAINT ON WOOD:
i. SAND LIGHTLY TO OBTAIN SMOOTH, EVEN PROFILE.
ii. TREAT KNOTS IN TIMBER WITH KNOTTING.
iii. COAT 1: DULUX PRIMER FOR WOOD: FULL COAT
iv. COAT 2: DURAGRIP: FULL COAT.
v. COAT 3 & 4: DURAGLOSS 100 ENAMEL: COLOUR WHITE - FULL COAT

d. PAINT ON STEELWORK:
i. RUB GALVANISED SURFACES DOWN WELL USING GALVACLEEN AND FINE STEEL WOOL TO REMOVE WAX/OIL SOLUTION.
ii. COAT 1: CALCIUM PLUMBATE PRIMER - FULL COAT
iii. COAT 2: DURAGRIP - FULL COAT
iv. COATS 3 & 4: DURAGLOSS ENAMEL - FULL COAT- COLOUR - BRILLIANT GREEN

e. PAINT ON PLASTER (INTERIOR)
i. SURFACES TO BE WELL SANDED DOWN. FILL IMPERFECTIONS AND SAND SMOOTH.
ii. COAT 1: AMERCOAT 2290 SEALER - FULL COAT
iii. COAT 2 & 3 AMERCOAT 2203 FINISH COAT - FULL COAT

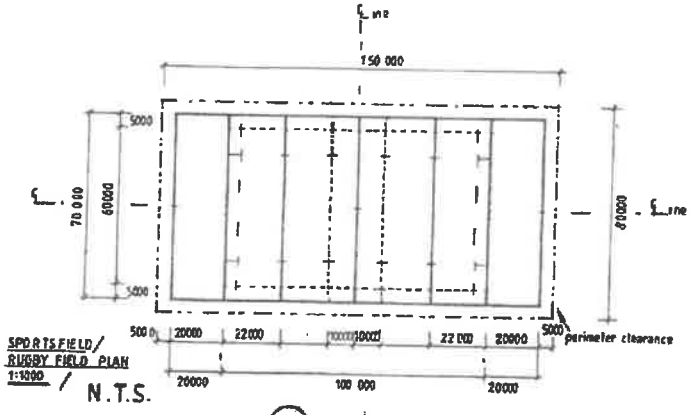
Project/Projek

JEFFREYS BAY

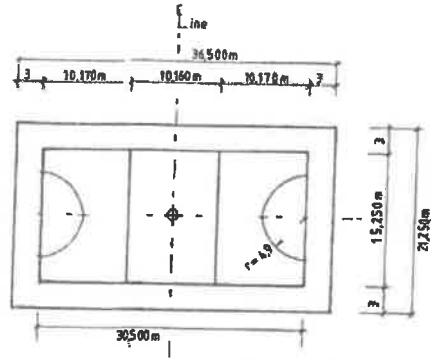
ABLUTION FACILITIES
AT SPORTS GROUND

Plan Description/Planbeskrywing

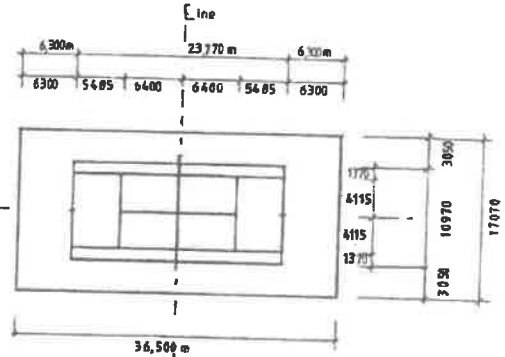
LAYOUT PLAN



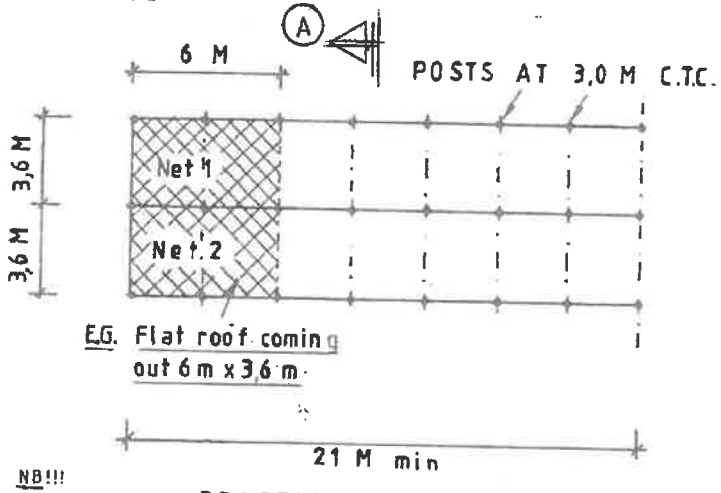
SPORTSFIELD/ RUGBY FIELD PLAN 1:1000 / N.T.S.



NETBALL COURT PLAN 1:300 / N.T.S.



TENNIS COURT PLAN 1:300 / N.T.S.



NB!!!
RF 193 REINFORCING WELDED-MESH MUST BE LAID, EMBEDDED INTO CONCRETE FLOOR SLAB. CONCRETE FLOOR SLABS MUST BE CAST IN 3,0 M X 3,6 M PANELS/ORAS AGREED UPON, WITH JOINTEX SEALANT INBETWEEN. PROVIDE 10MM MOVEMENT CONTROL JOINTS.

PRACTICE CRICKET NETS 1:200 / N.T.S.

A

SECTION A#A 1:100

ALL WORK AS PER ALL PARTS OF SANS 10082, SANS 10400, SANS 10400XA, CODE OF STD AND PRACTICES.

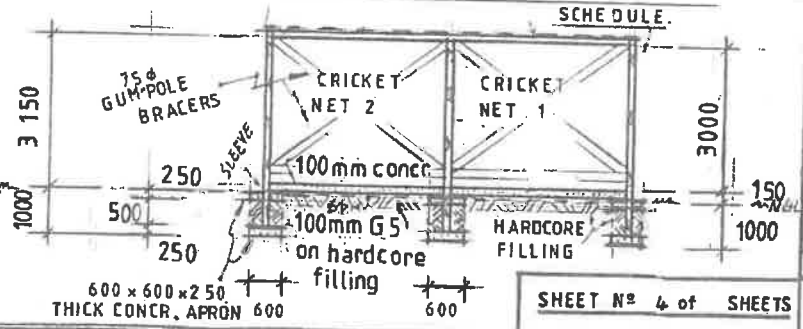
LEGEND
A – CLUBHOUSE / CHANGEROOMS
B – CARETAKERS DWELLING / OFFICE
C – SPORTSFIELD
D – NETBALL COURT
E – TENNIS COURT
F – PRACTICE CRICKET NETS
G – PARKING AREA

NB!!!
EXACT POSITIONING OF BUILDINGS ON SITE WILL BE DETERMINED BY THE LOCAL AUTHORITY.

FLOOR :-
FLOOR FINISH, "AS PER SCHEDULE", ON MIN. 30MM GRANO SCREED ON 100MM CONCRETE ON 250 MICRON D.P.M. ON 50MM THICK SAND ON 100 MM (MIN.) COMPACTED G5 MATERIAL ON COMPACTED HARDCORE FILLING AS PER ENGINEER'S SPEC'S.

GENERAL LAYOUT PLAN

NET ON POLE-FRAMES AS PER ATTACHED SCHEDULE.



Client :-
KOUGA MUNICIPALTY

Project :-
PROPOSED SPORTS RECREATION PLAYING-AREA AND BUILDINGS ON ERF

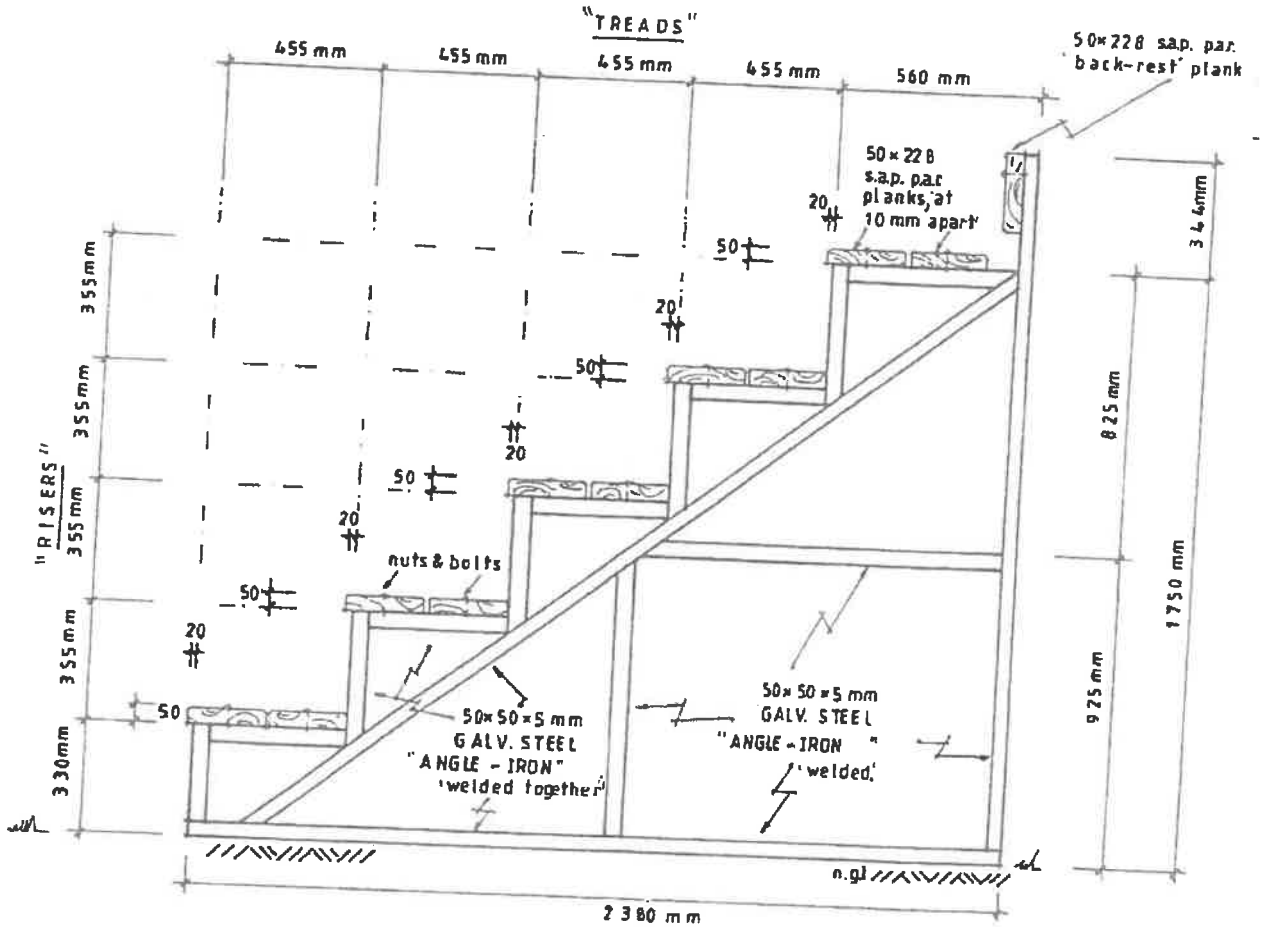
SCALES :- 1:1000; 1:300
CHECKED :-

DESIGN	DRAWN	DATE
K.ACKERMANN	K.ACKERMANN	JAN; 2018

SHEET Nº 4 of SHEETS

DRAWING Nº :- G

SHEET Nº 1 of 2



MUNISIPALITEIT JEFFREYSBAAI / BAY MUNICIPALITY

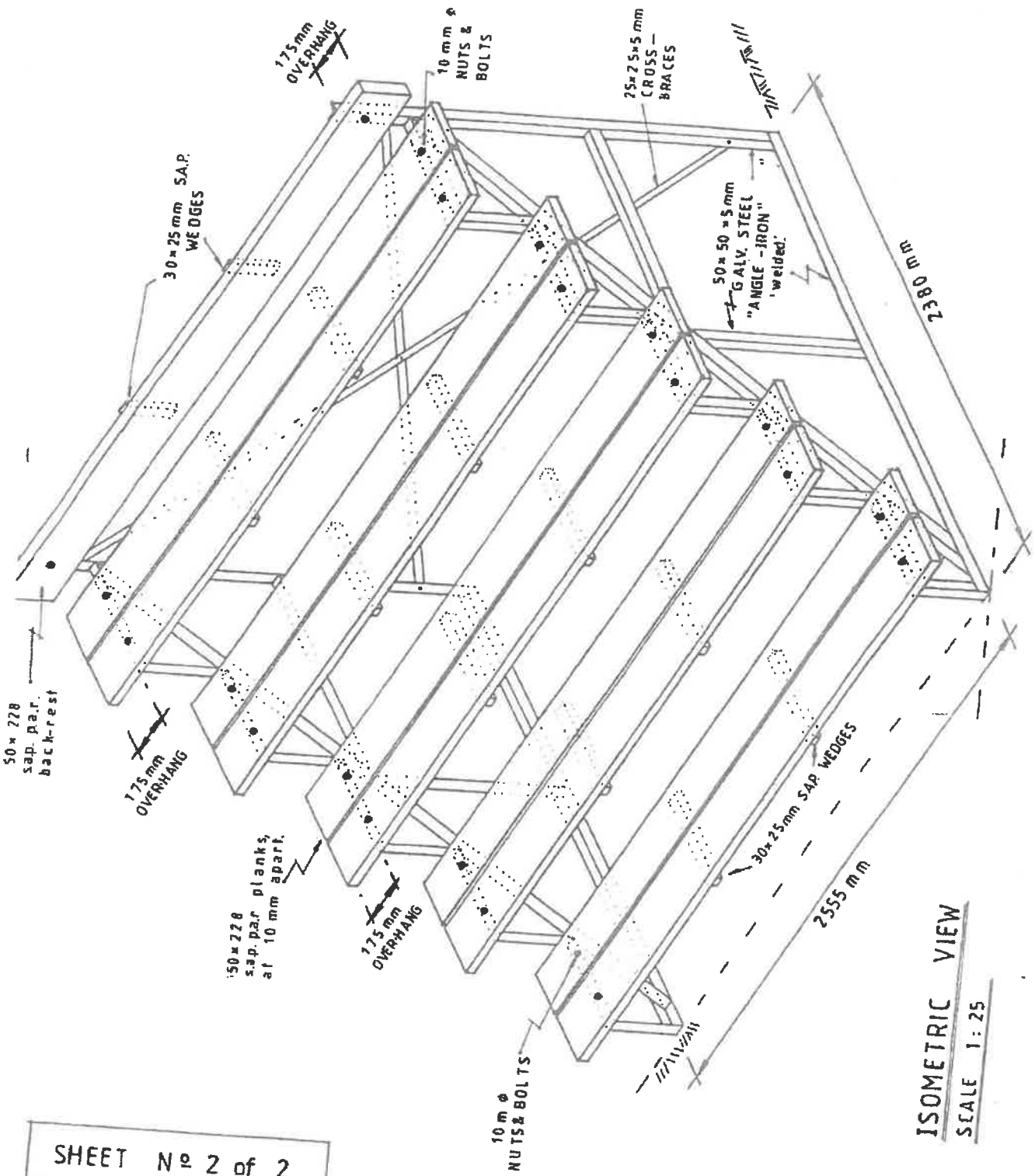
PROJEK/PROJECT

STANDARD-DETAIL of ENGINEERING "GRAND-STANDS"

SHEET Nº 5 OF SHEETS

skaal / scale	getekend / drawn	nagesien / checked	datum / date	TEKENING Nr: / DRAWING No:
1 : 20	K. ACKERMANN			STD

Regma



ISOMETRIC VIEW

SCALE 1 : 25

SHEET Nº 2 of 2

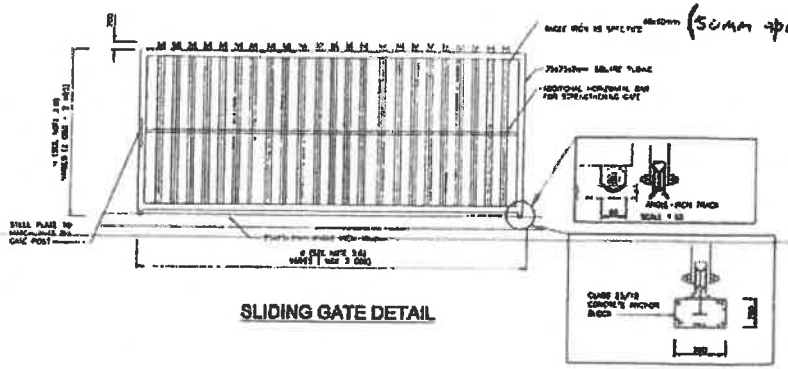
MUNISIPALITEIT JEFFREYSBAAI / BAY MUNICIPALITY

PROJEK/PROJECT

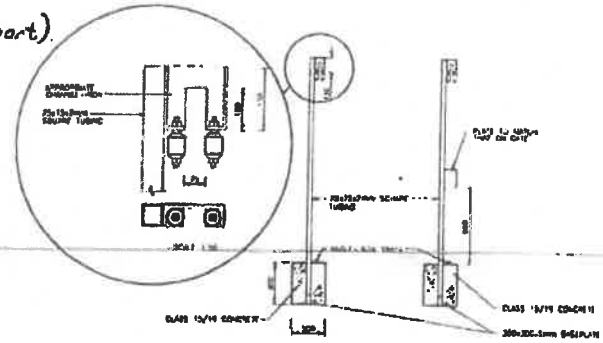
STANDARD DETAIL of ENGINEERING "GRAND-STANDS"

SHEET Nº 6 OF SHEETS

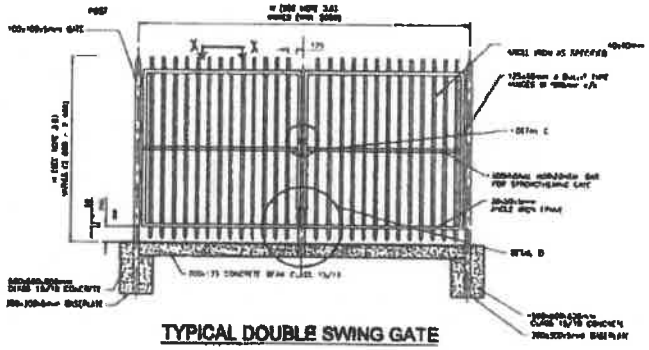
skaal / scale	geteken / drawn	nagesien / checked	datum / date	TEKENING Nr: / DRAWING No:
1 : 25	K.ACKERMANN			STD



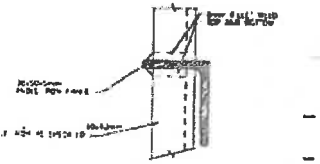
SLIDING GATE DETAIL



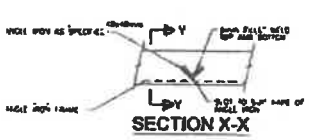
GATEPOSTS FOR SLIDING GATE DETAIL



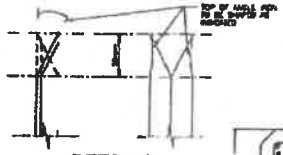
TYPICAL DOUBLE SWING GATE



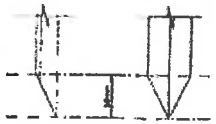
SECTION Y-Y



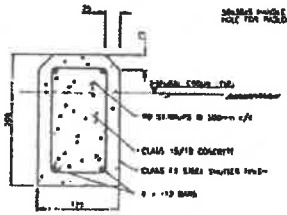
SECTION X-X



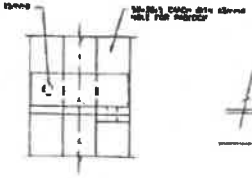
DETAIL A



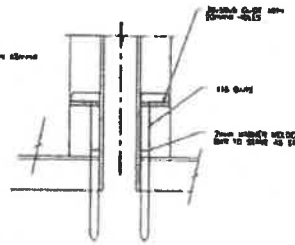
DETAIL B



TYPICAL SECTION THROUGH CONCRETE BEAM



DETAIL C (FRONT ELEVATION)



DETAIL D (BACK ELEVATION)

NOTES AND SPECIFICATIONS

1. GENERAL
2. CONCRETE
3. STEELWORK

GENERAL LAYOUT PLAN

Client :-
KOUGA MUNICIPALTY

Project :-
PROPOSED SPORTS RECREATION PLAYING-AREA AND BUILDINGS ON ERF

© copy right

SCALES :-
1:1000; 1:200

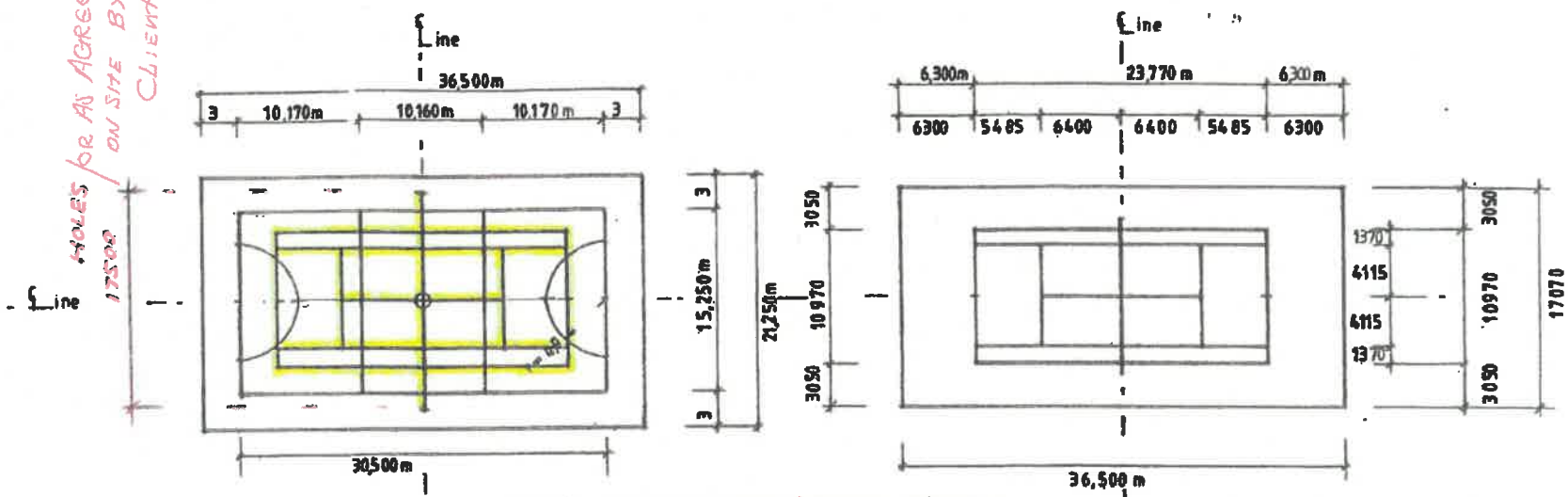
CHECKED :-

DESIGN	DRAWN	DATE
K.ACKERMANN	K. ACKERMANN	JAN: 2018

DRAWING No :- 6

SHEET No- 7 OF SHEETS

HOLES for As AGREED UPON ON SITE BY CLIENT



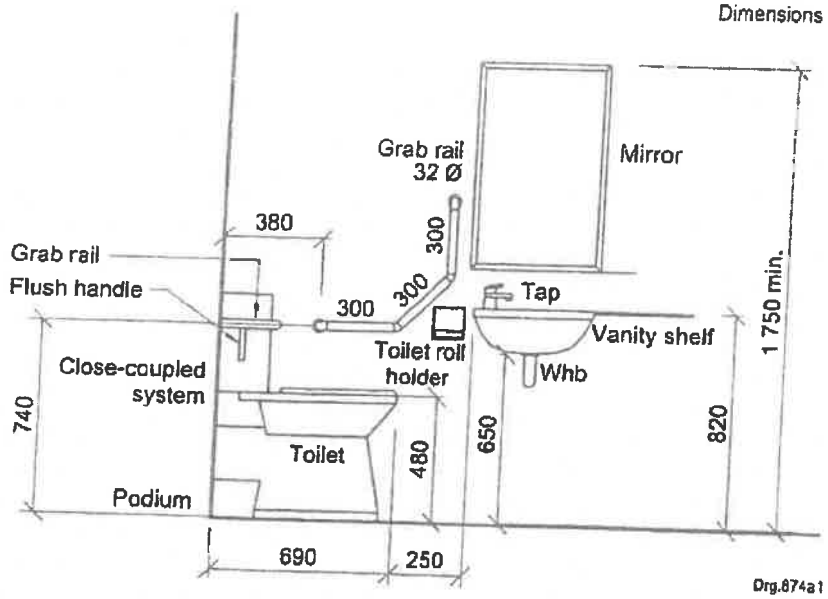
NETBALL COURT PLAN AND TENNIS COURT

LINE MARKINGS:-

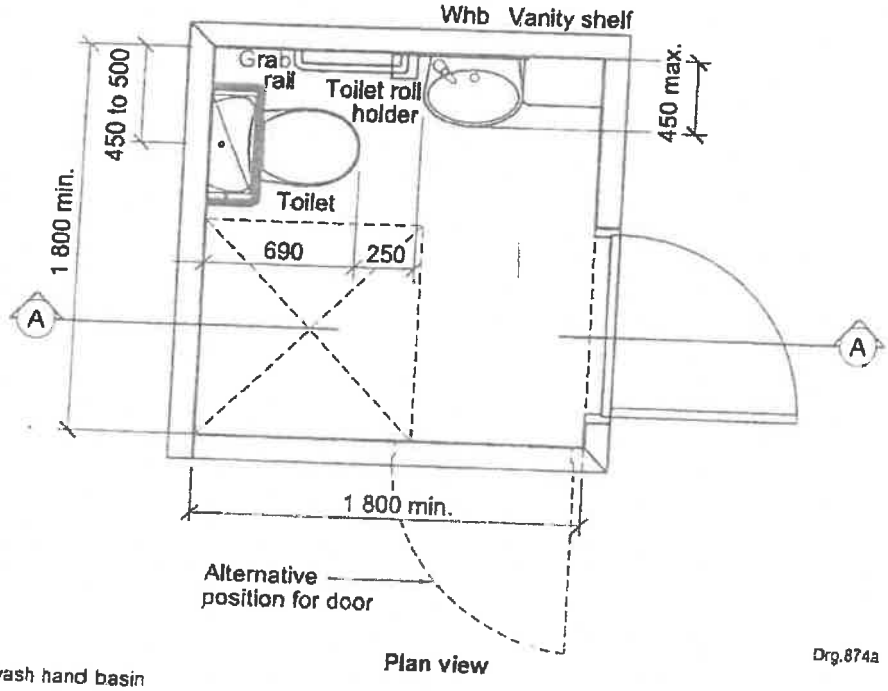
NETBALL COURT MARKINGS = YELLOW — LINE WIDTH = 50 MM

TENNIS COURT MARKINGS = WHITE — LINE WIDTH = 50 MM

Dimensions in millimetres



Elevation A-A

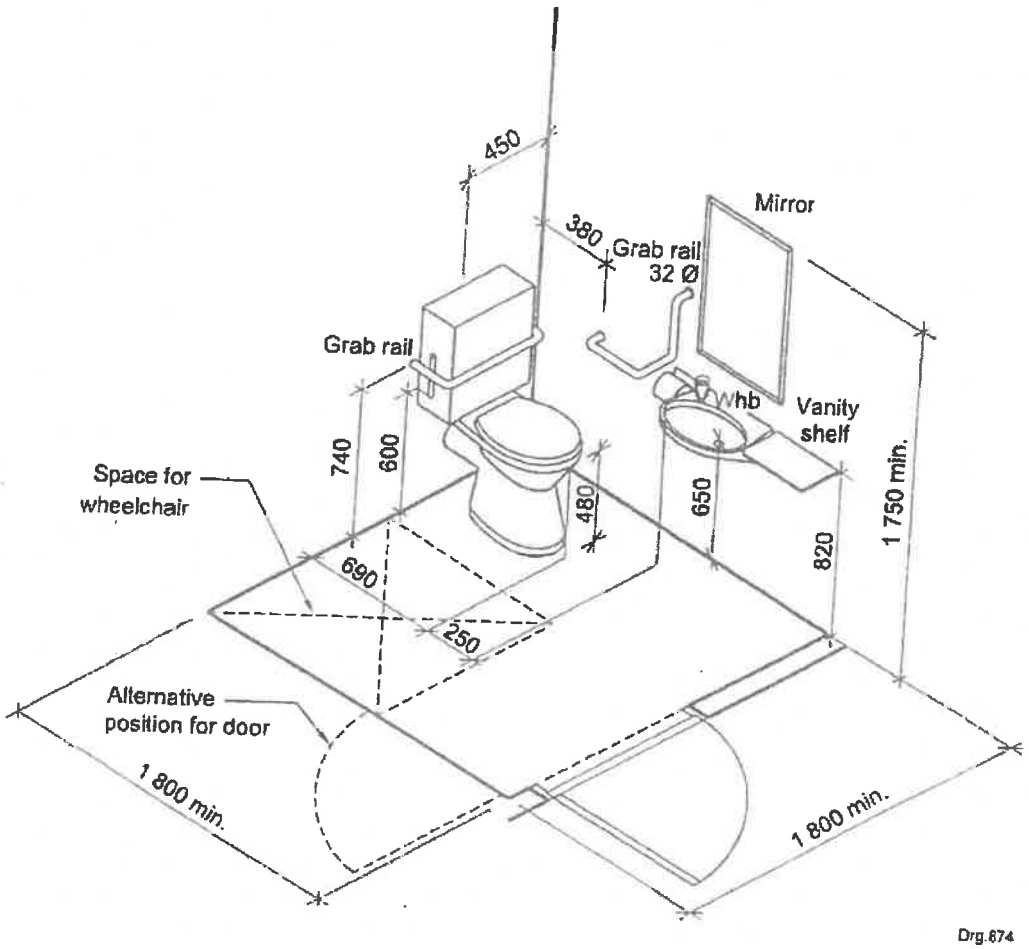


Whb = wash hand basin

Plan view

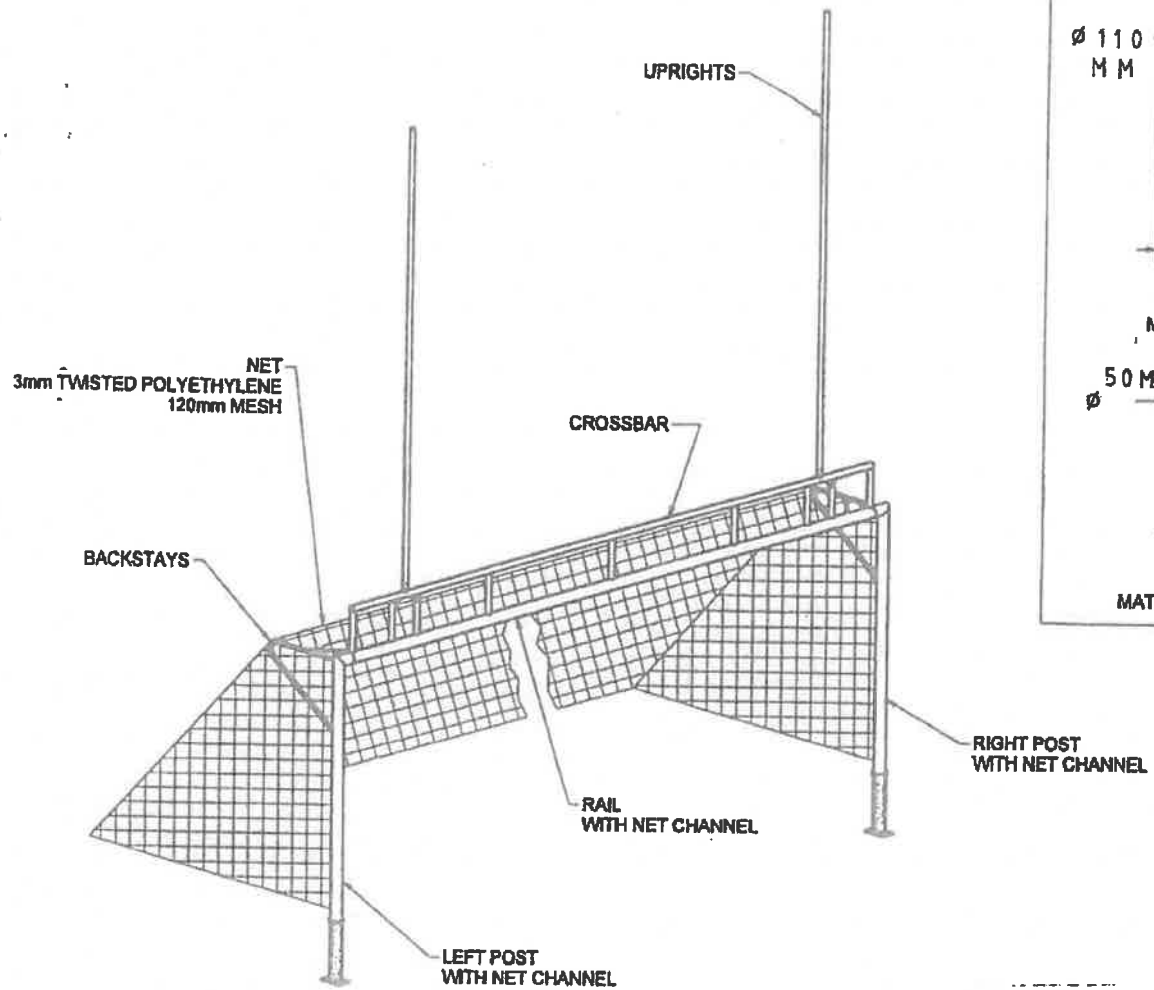
Figure D.2 — Plan and elevation of a typical facility with a close-coupled toilet system

Dimensions in millimetres

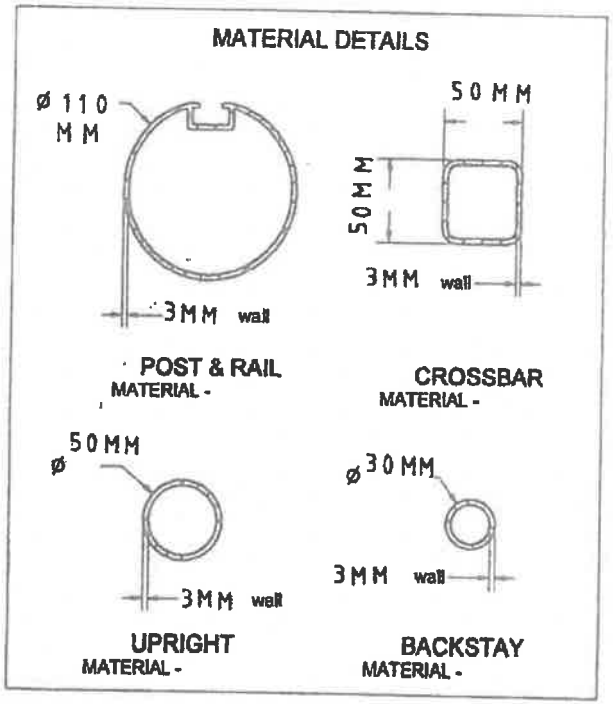


Whb = wash hand basin

Figure D.1 — Layout of a typical facility with a close-coupled toilet system



MATERIAL DETAILS



GENERAL LAYOUT PLAN

SHEET Nº 11 OF SHEETS

Client :-
KOUGA MUNICIPALTY

Project :-
PROPOSED SPORTS RECREATION PLAYING-AREA AND BUILDINGS ON ERF

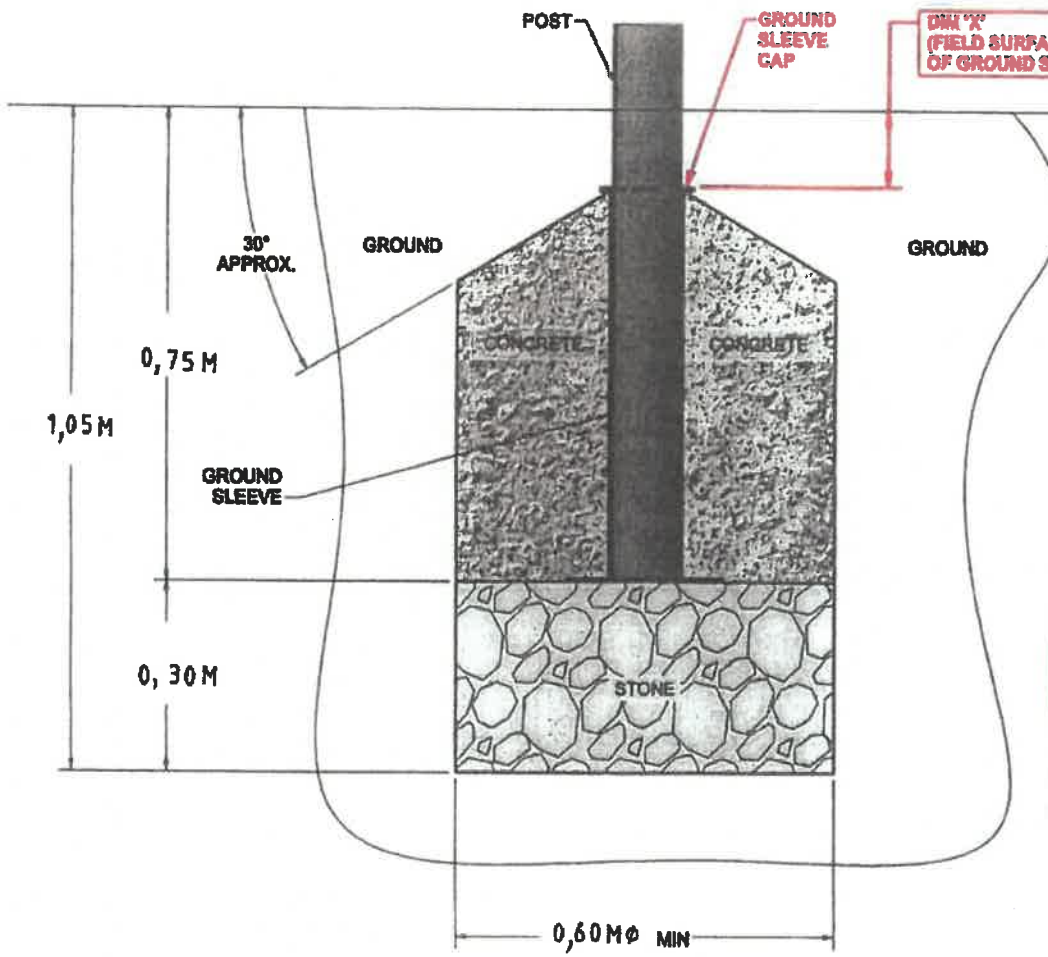
SCALES :-
1:1000; 1:100

CHECKED :-

DESIGN	DRAWN	DATE
K.ACKERMANN	K. ACKERMANN	JAN: 2018

DRAWING Nº :- 6

Finish info.



APPROVAL

ORDER#:_____ DATE:_____ QUANTITY:_____

CUSTOM INSTALLATION DEPTH (DIM'X') : :_____

NOTE: DIMENSION 'X' IS FROM FIELD SURFACE TO TOP OF GROUND SLEEVE CAP

DEALER:_____

SIGNATURE_____ DATE:_____

CUSTOMER:_____

SIGNATURE_____ DATE:_____

GENERAL LAYOUT PLAN

SHEET 12 OF SHEETS

Finish Info.

Client :-
KOUGA MUNICIPALTY

Project :-
PROPOSED SPORTS RECREATION PLAYING AREA AND BUILDINGS ON ERF

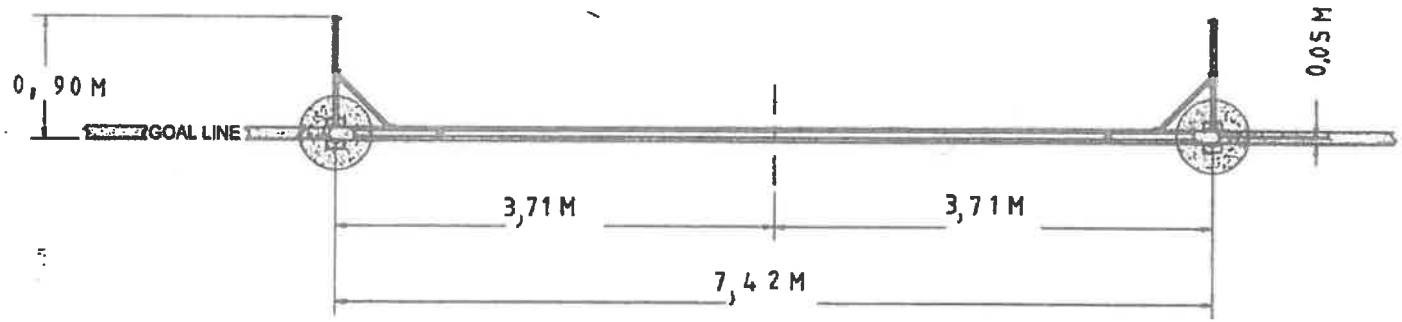
SCALES :- 1:1000, 1:200

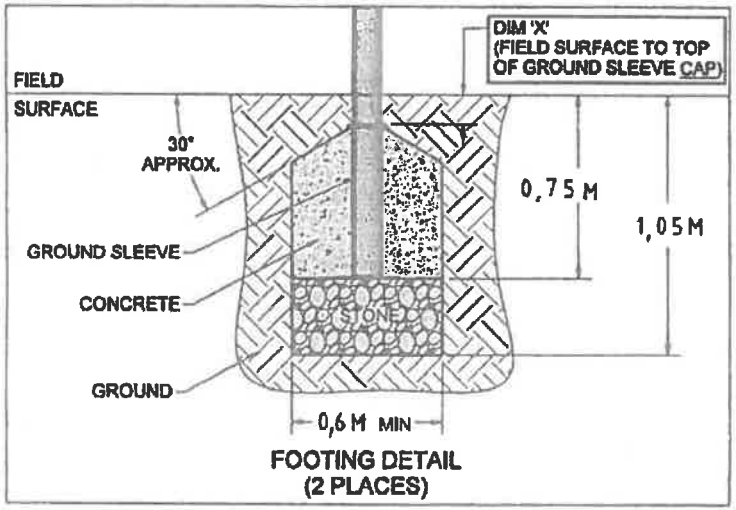
CHECKED :-

DESIGN	DRAWN	DATE
K.ACKERMANN	K. ACKERMANN	JAN: 2016

DRAWING Nº :- 6

OVERHEAD VIEW





FOOTING DETAIL
(2 PLACES)

NOTES:

1) DIMENSIONS ARE FOR PLANNING PURPOSES. INSTALLATION MUST BE IN ACCORDANCE WITH INSTALLATION INSTRUCTIONS.

MATERIAL REQUIRED, BUT NOT SUPPLIED

0.4 cubic yard - CONCRETE
0.3 cubic yard - CLEAN STONE (1/4" - 3/4")
ABOVE AMOUNTS ARE PER GOAL INSTALLATION

GENERAL LAYOUT PLAN

SHEET Nº 13 OF SHEETS

Client :- KOUGA MUNICIPALTY

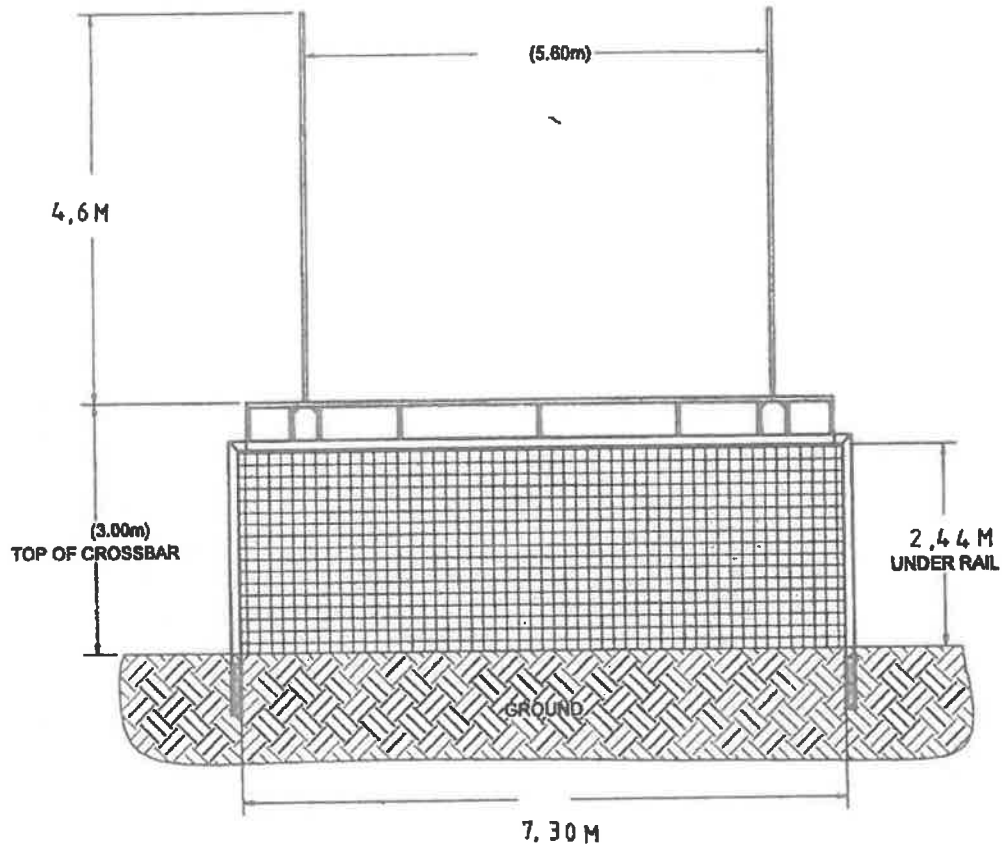
Project :- PROPOSED SPORTS RECREATION PLAYING-AREA AND BUILDINGS ON ERF

SCALES :- 1:1000; 1:500	CHECKED :-	
DESIGN	DRAWN	DATE
K.ACKERMANN	K.ACKERMANN	JAN: 2018

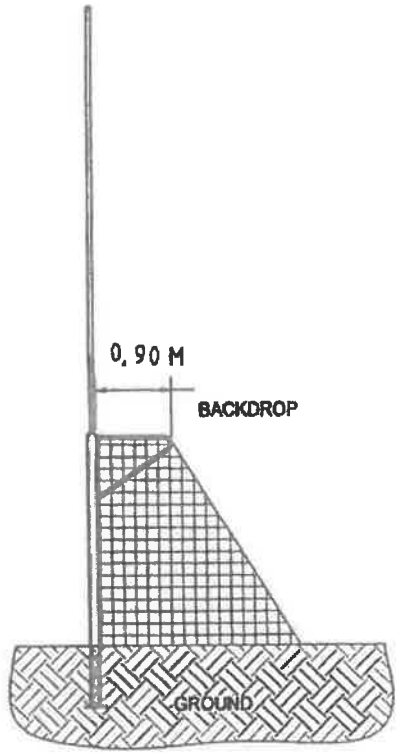
DRAWING Nº :- G

Finish Info.

FRONT VIEW



SIDE VIEW



GENERAL LAYOUT PLAN

SHEET Nº 14 OF SHEETS

Client :-
KOUGA MUNICIPALTY

Project :-
PROPOSED SPORTS RECREATION PLAYING-AREA AND BUILDINGS ON ERF

SCALES :- 1:1000; 1:100

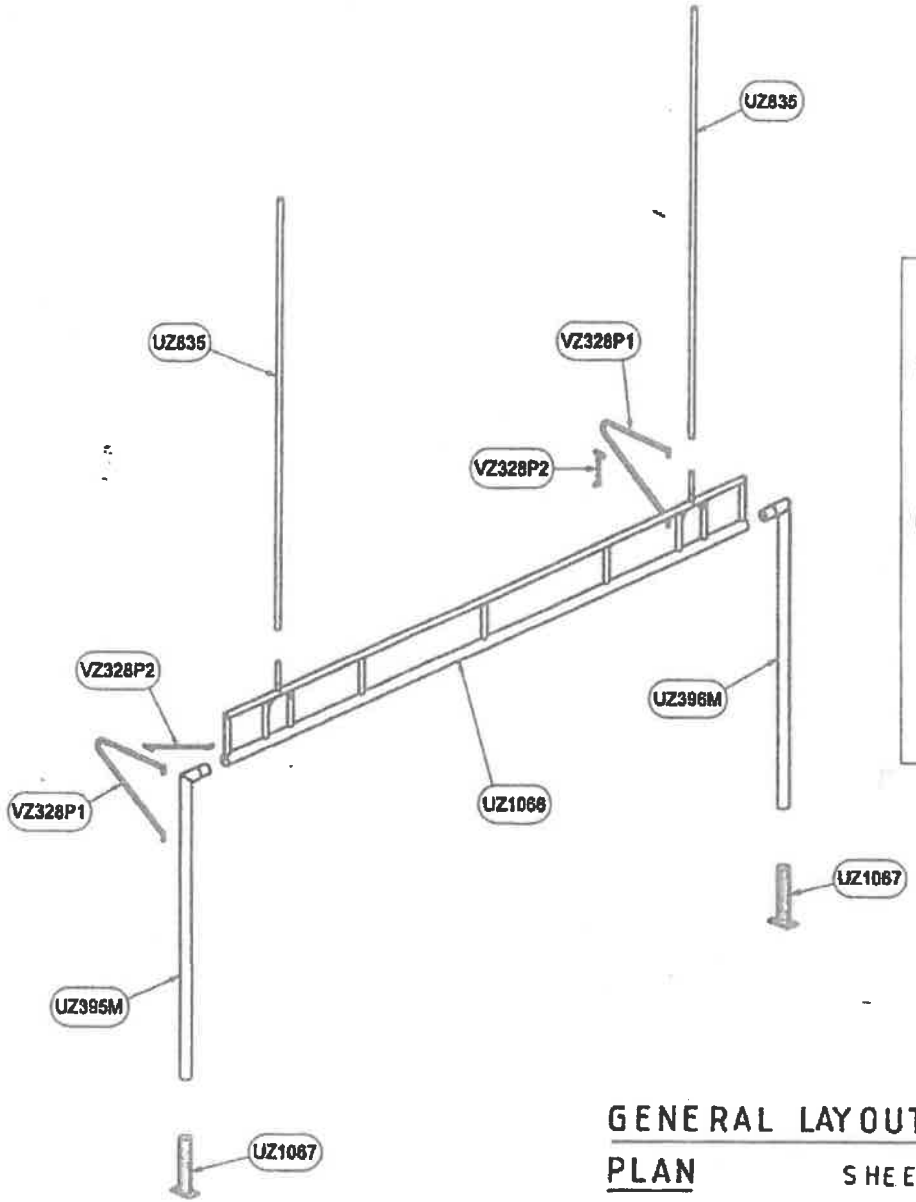
CHECKED :-

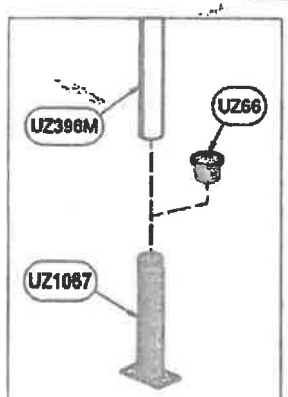
DESIGN	DRAWN	DATE
K.ACKERMANN	K.ACKERMANN	JAN: 2018

DRAWING Nº :- G

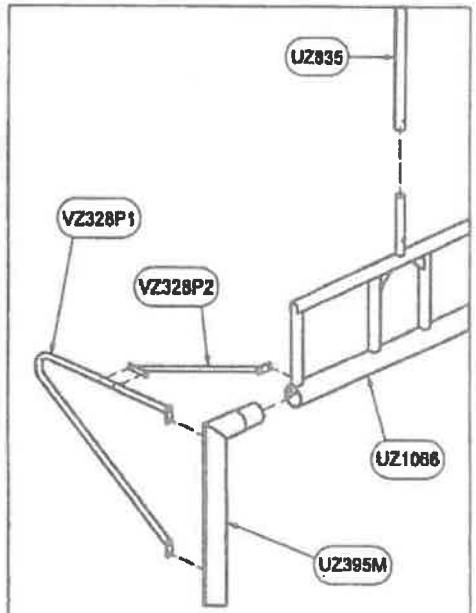
Finish Info.

Parts List		
Part #	Qty	Description
UZ1066	1	Truss, Custom Rugby/Soccer
UZ396M	1	2D301 FRONT POST RIGHT PART (B)
UZ395M	1	2D301 FRONT POST LEFT PART (A)
VZ328P2	2	BACKSTAY BRACE
VZ328P1	2	BACKSTAY
UZ835	2	Upright, 2D301 Football/Soccer
UZ1067	2	Ground Sleeve
UZ66	2	GROUND SLEEVE CAP
0050A	1	NET, 3MM ROPE, 120MM MESH





GROUND SLEEVE & POST (2 LOCATIONS)



BACKSTAY, TRUSS & UPRIGHT ASSEMBLY (2 LOCATIONS)

GENERAL LAYOUT PLAN

SHEET No 15 OF SHEETS

Finish Info.

Client :-
KOUGA MUNICIPALTY

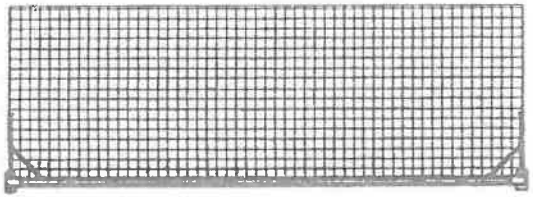
Project :-
PROPOSED SPORTS RECREATION PLAYING AREA AND BUILDINGS ON ERF

SCALES :- 1:1000; 1:500

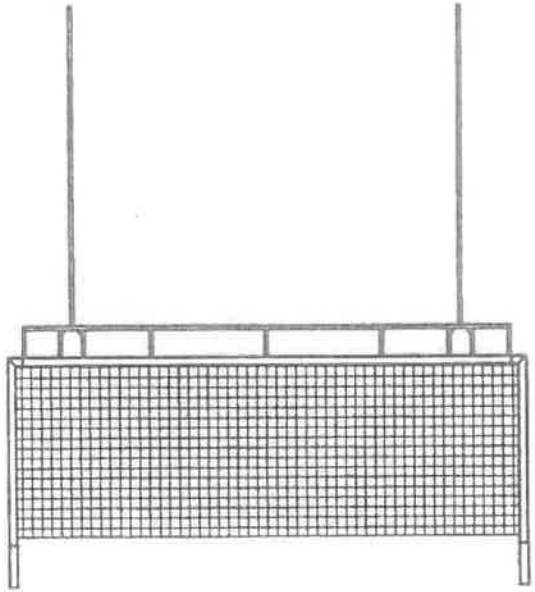
CHECKED :-

DESIGN	DRAWN	DATE
K.ACKERMANN	K.ACKERMANN	JAN: 2018

DRAWING No :- G

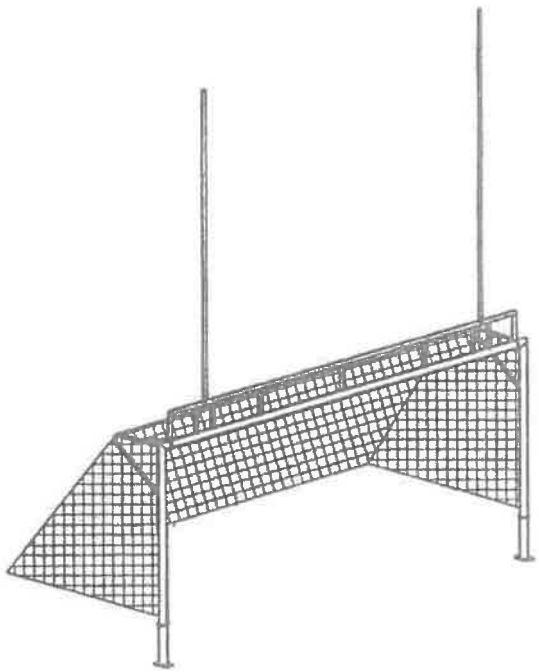


TOP VIEW



FRONT VIEW

RIGHT VIEW



ISOMETRIC VIEW

GENERAL LAYOUT PLAN

SHEET NO 16 OF SHEETS

Client :-
KOUGA MUNICIPALTY

Project :-
PROPOSED SPORTS RECREATION PLAYING-AREA AND BUILDINGS ON ERF

SCALES :- 1:1000; 1:200	CHECKED :-	
DESIGN :-	DRAWN	DATE
K.ACKERMANN	K.ACKERMANN	JAN: 2018

DRAWING Nº :- 6

Finish info.

TECHNICAL REQUIREMENTS/ SPECIFICATIONS FOR LED LIGHTING.

SPECIFICATIONS DOCUMENT

"A"

1.1. REPLACEMENT FITTING FOR 1000HPS FLOOD LIGHT WITH LED FLOODLIGHT:

The luminaire shall be designed in accordance with the following requirements:

1.1.1. Design life: In excess of 25 years

1.1.2. The replacement (upgrading and service) of the LED unit and the driver/power supply shall be possible without removing the whole luminaire but by means of replacing only the optical/gear compartment by means of a hinging mechanism.

1.1.3. The luminaire shall incorporate a temperature sensor which monitors the temperature of the LEDs on the PCBs. Once a critical temperature is reached, the current shall be reduced to a safe temperature level. The temperature sensor shall not completely switch off the LEDs at high temperatures, which shall facilitate maintenance to be undertaken during daylight hours.

1.1.4. The luminaire shall incorporate a surge protection device of 20kA minimum.

1.1.5. Minimum IP rating of the light compartment, including driver compartment: IP66.

1.1.6. The protector shall be smooth, for easy cleaning, and shall be manufactured of tempered glass (IK08).

1.1.7. It shall be certified, in terms of IEC 60598, to operate at an ambient temperature of 35°C. The thermal design shall be particularly designed for African exterior conditions, i.e. high temperatures, high pollution, corrosion resistant.

1.1.8. The cooling fins shall be designed in such a manner to prevent the accumulation of dirt, thus ensuring the continuous effective cooling. The cooling rib height to width ratio may not exceed 0.7. Additionally the top surface shall be curved in shape.

1.1.9. The LED life expectancy shall be 60,000 hours at 80% lumen maintenance. (Documentary evidence from the LED manufacturer, by means of an appropriate datasheet, con- firming the statistical correlation, shall be provided).

1.1.10. Use of high efficiency LED's (>100 lumens/watt: Absolute photometry) CRI > 70. Documentary evidence of compliance to this clause shall be submitted with the tender.

1.1.11. Colour temperature shall be neutral white (4 000K). A report from the LED vendor, for LED's used in the luminaire, shall be submitted, which shall include the following documentary evidence: Measured LED junction temperature for a given test condition and extrapolated for an ambient temperature of 35°C.

1.1.12. LED drive current.

1.1.13. LED manufacturer data that clearly correlates LED junction temperature and LED drive current to lumen maintenance.

1.1.14. The LED datasheets, indicating the Byy, Lxx data, as provided by the LED manufacturer.

1.1.15. Documentary evidence, confirming that the failure of one LED will not cause additional LED's to fail.

1.1.16. Direct conduction & maximized surface for external heat exchange shall be provided.

1.1.17. The luminaire housing shall be constructed of marine grade high pressure die cast LM6 (EN 1706 AC-44300) aluminum. Tenderers shall submit a metallurgical report from an

independent metallurgist confirming the grade of aluminum for all the luminaires offered. The housing shall be robustly constructed, weather-proof, hail-proof, insect- proof, corrosion proof, ultraviolet light resistant and vandal resistant.

1.1.18. The control gear compartment shall be either incorporated into the luminaire housing or be remote mounted onto the luminaire.

1.1.19. The power supply connection must take place inside the luminaire.

1.1.20. The luminaire manufacturer shall be based in the Republic of South Africa

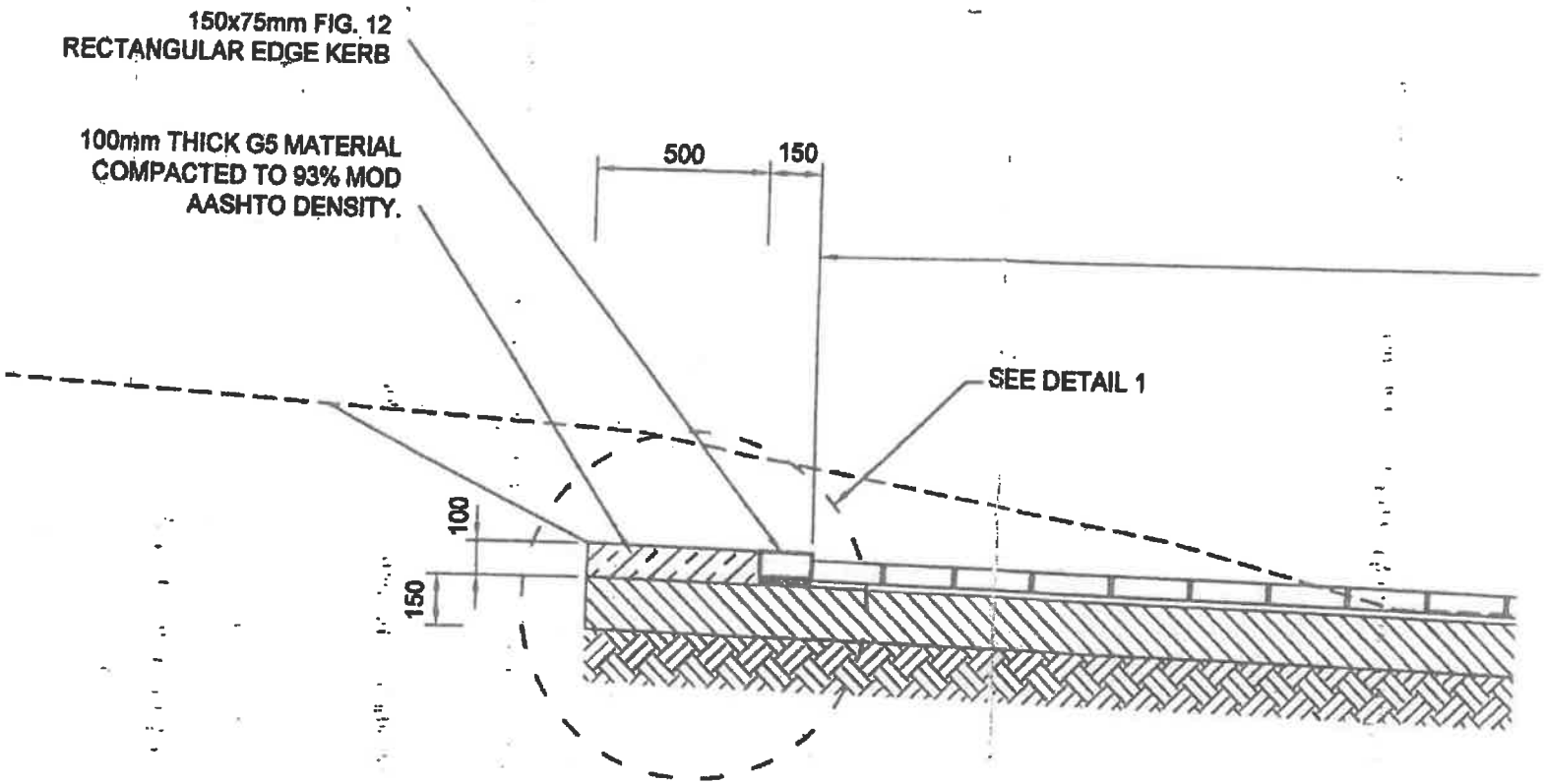
1 design shall be submitted of each of the following, to ensure minimum lighting levels are obtained, using the most efficient luminaire available for the supplier. The below designs MUST be submitted with your pricing.

High Mast Lighting

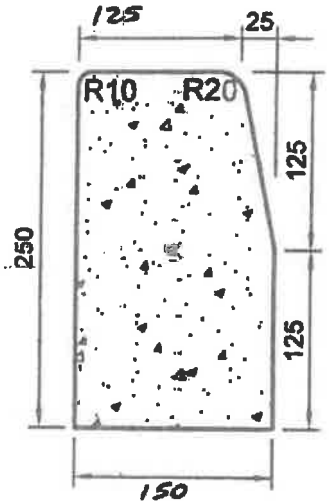
- Single mast with 8 LED luminaires
- Minimum lighting level of 0.4 lux
- Maintenance factor to be used – 0.8
- Lux levels between the mast must be indicated too

SPECIAL CONDITIONS:

1. Successful supplier must provide all SANS / IEC certificates upon delivery.
2. All spare components must be readily available within South Africa
3. Luminaires must be manufactured within an ISO 9001 accredited factory

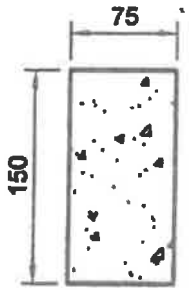


NOTE: THE FOLLOWING ADDITIONAL LAYERS ARE TO BE ADDED BETWEEN LAYERS 3 AND 4 DEPENDING ON THE CBR OF INSITU MATERIAL	
CBR	MATERIAL
>15	NONE.
15-7	G7 COMPACTED TO 93% MOD AASHTO DENSITY
<7	G9 COMPACTED TO 90% MOD AASHTO DENSITY



PRECAST BARRIER KERB
SABS 927 FIG. 4

SCALE 1:5



PRECAST UNIT KERB
SABS 927 FIG. 12

SCALE 1:5

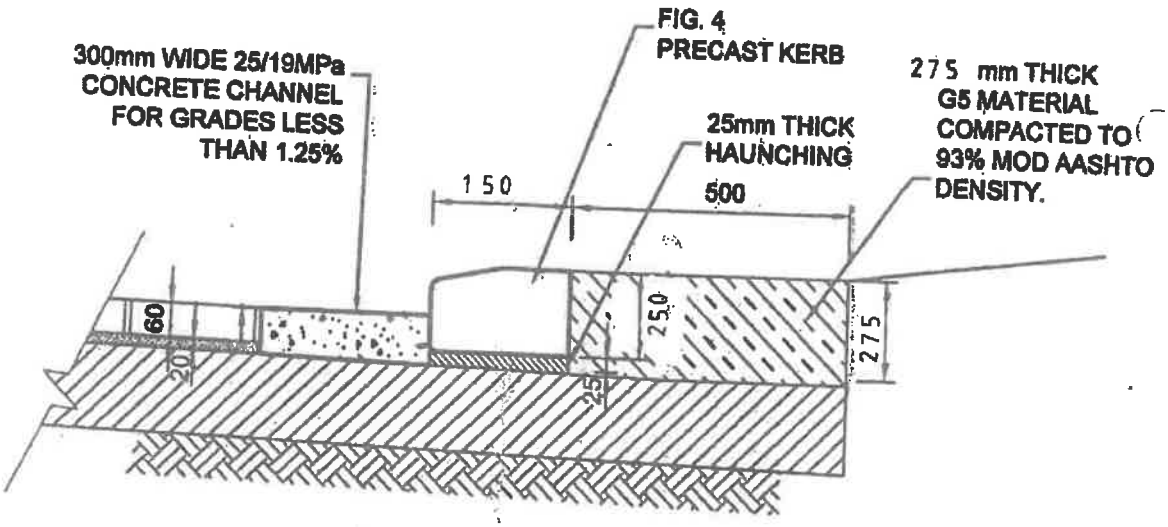
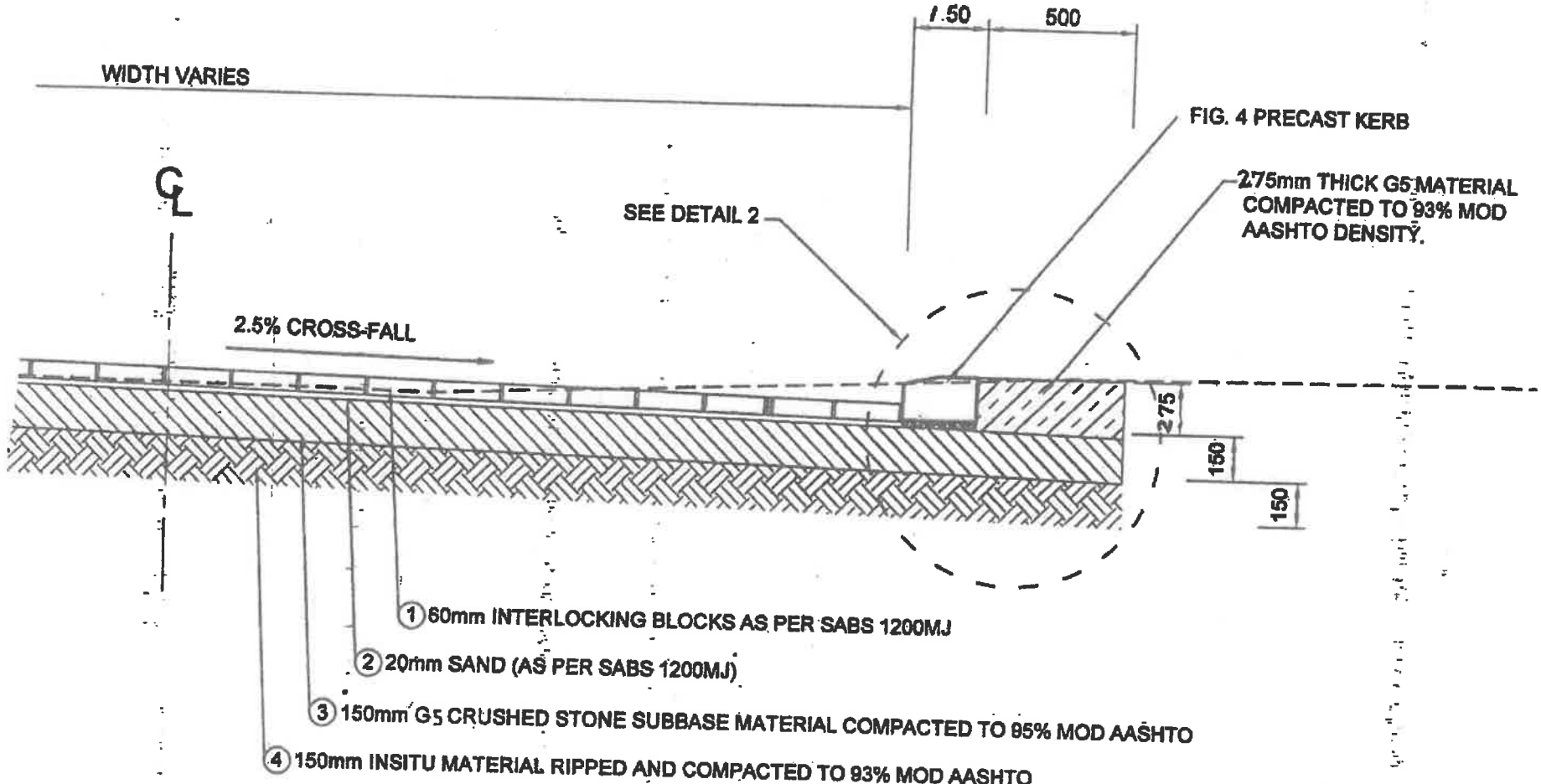


FIG. 4 KERB UNIT WITH 300mm WIDE CHANNEL

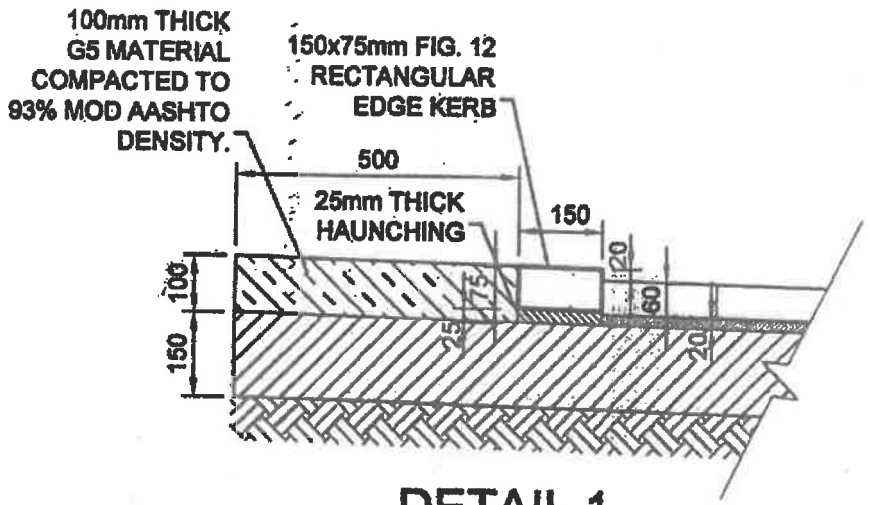
SCALE 1:12.5



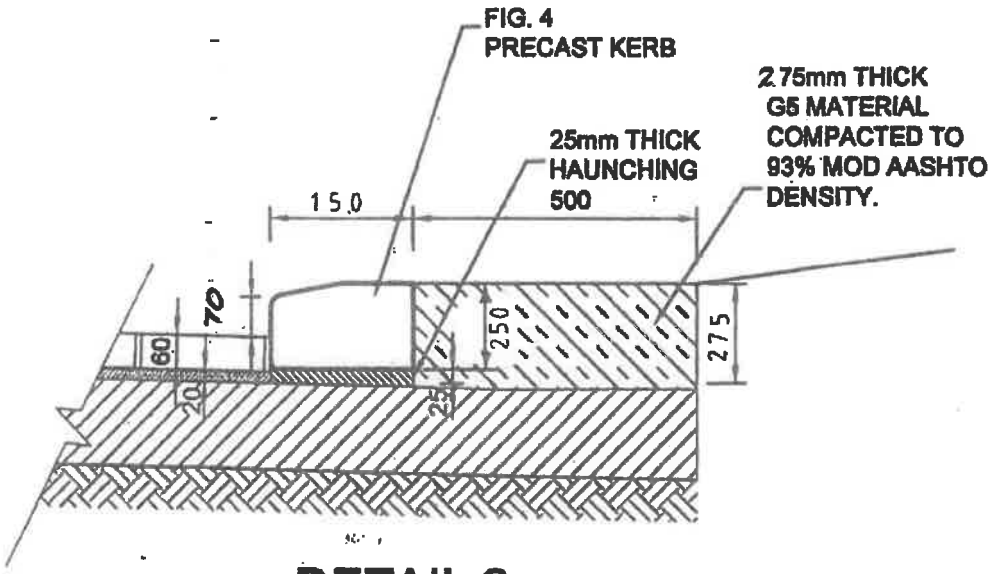
TYPICAL ROAD CROSS SECTION

SCALE 1:20

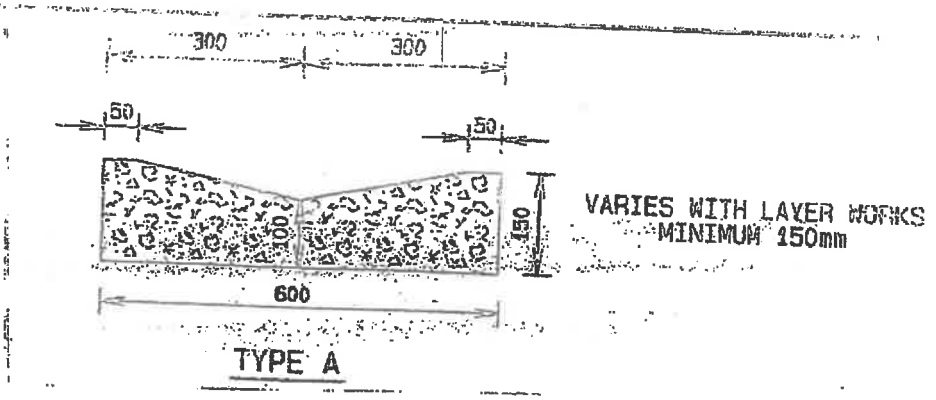
SHEET NO 22 OF SHEETS



DETAIL 1
SCALE 1:12.5

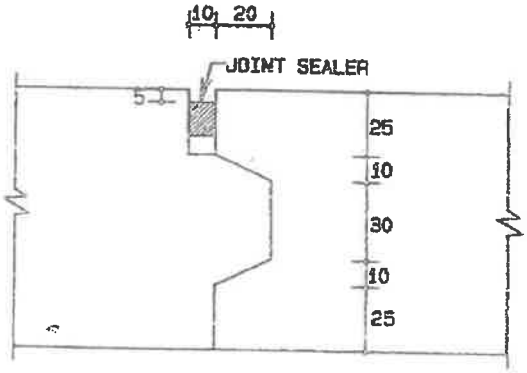


DETAIL 2
SCALE 1:12.5



TYPE A

4. JOINT TO BE SEALED USING AN APPROVED SEALANT AS DIRECTED BY THE ENGINEER.



DETAIL OF SLAB JOINT

DO NOT SCALE FROM DRAWING

SHEET NO 25 OF SHEETS

NOTES :

30MPa CONCRETE. IN-SITU MATERIAL TO BE OF G5 SUBBASE QUALITY, COMPACTED TO MINIMUM 95% MOD. A.A.S.H.T.O. DENSITY.
FINISH TO BE WOOD FLOATED.
CONTRACTION JOINTS AT MAXIMUM INTERVAL OF 4m.

DATE OF LAST REVISION		STANDARD DETAILS	DRAWING No.
PREPARED BY : CONTRACTS DIVISION		CAST IN-SITU CONCRETE CHANNEL	

1.4.15 Rugby Union

Rugby Union is an outdoor sport played by two teams of 15 players with a spheroid-shaped ball. The aim of the game is to score as many points as possible. The team that scores the greatest number of points is the winner. Points are scored by scoring a try or kicking a goal or conversion.

The game is played on a natural grass field that is 100 metre in length (excluding the in-goal area) and the width may vary but may not be more than 70 metres wide. The in-goal area may not be less than 10 metres and not more than 22 metres deep.

The "H-Shaped" goal posts, which are 5.60 metre apart and have a crossbar situated 3.0 metre above the playing field, are situated on the centre of the goal line.

The field is marked as follows: (See Drawing on next page)

- To the perimeter of the field
- A goal line on each side of the field
- A 22 metre "drop out" line across the width of the field on both sides of the field.
- A halfway line across the width field.
- A 10 metre dotted line across the field on either side of the halfway line.
- A 5 metre dotted line across the field situated 5 metres away from the goal line within the 22 metre "drop out" zone, to both sides of the field.
- A 5 metre dotted line, situated on the inside of the side line on both sides of the field.
- A 15 metre dotted line, situated on the inside of the side lines on both sides of the field.

Flags are positioned at each corner, at the ends of the goal line, at the ends of the 22 metre line and at the ends of the halfway line.

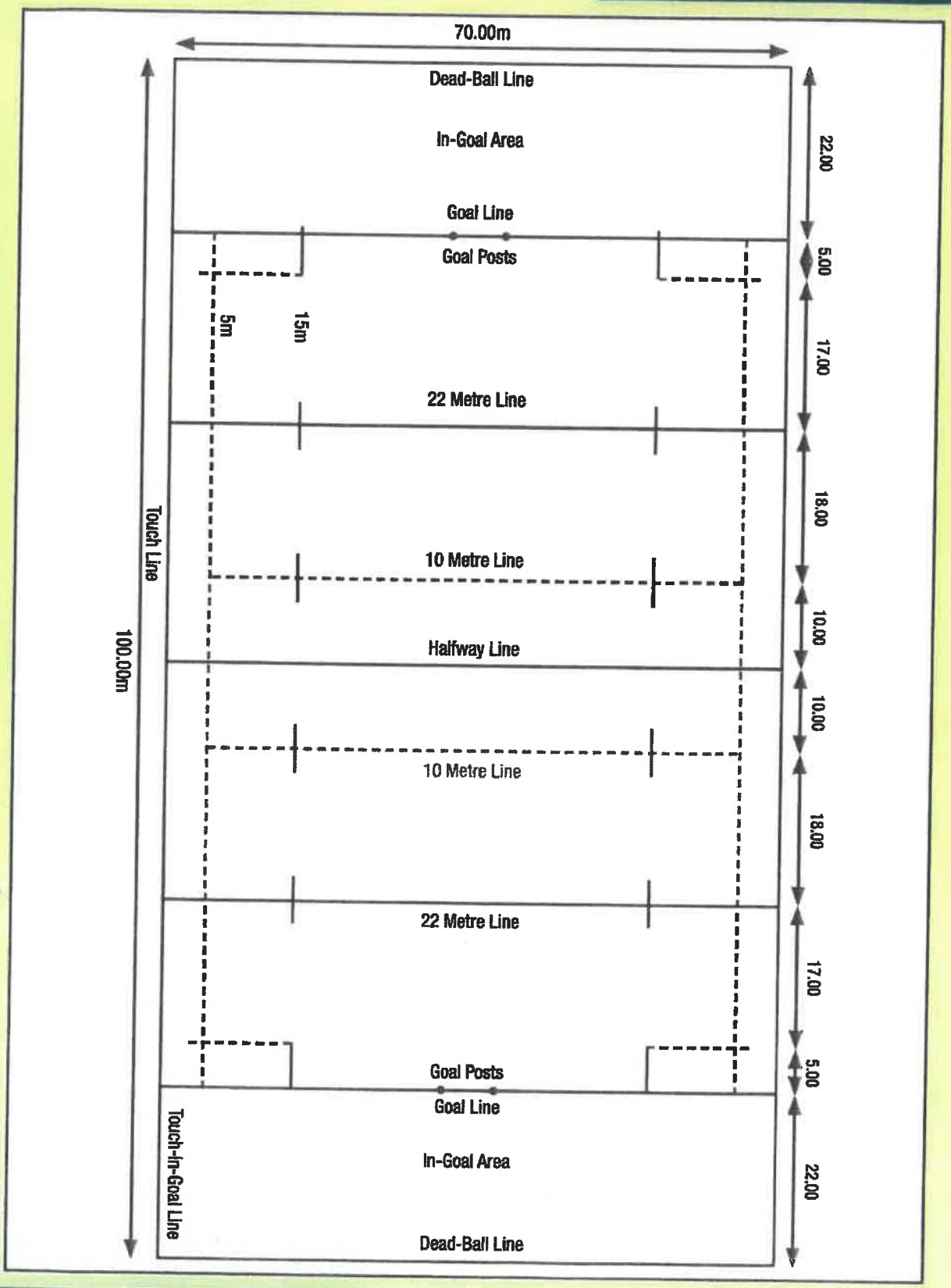
The ball

The ball is oval in shape and is made from leather or synthetic materials and should resist water.

The ball has the following dimensions:

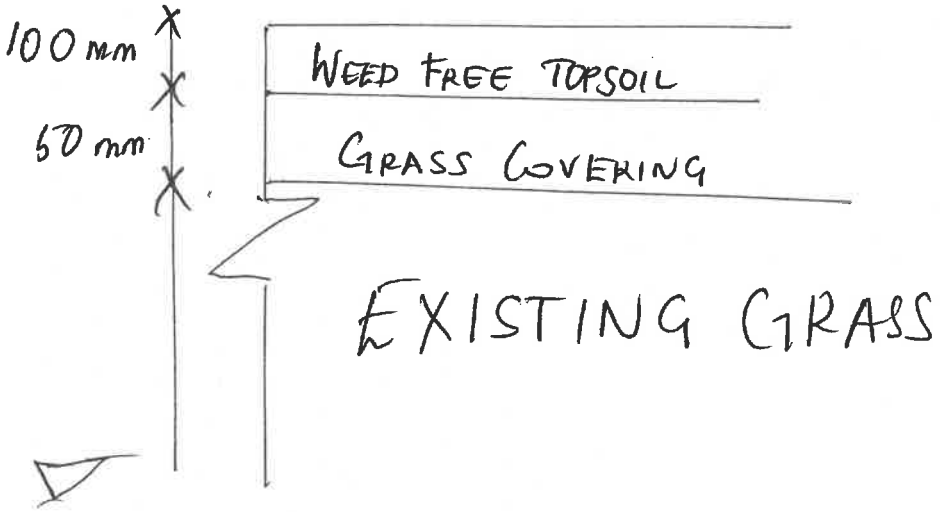
- Length in line 80 – 300 mm
- Circumference (end on) 760 – 790 mm
- Circumference (width) 580 – 620 mm
- Mass 400 – 440 grams
- Pressure at sea level 0.67 – 0.70 kg per cm 2

Rugby Field


70.00m
Dead-Ball Line
In-Goal Area
22.00
Goal Line
Goal Posts
5.00
5m
15m
17.00
22 Metre Line
18.00
10 Metre Line
10.00
Halfway Line
10.00
10 Metre Line
18.00
22 Metre Line
17.00
Goal Posts
5.00
Goal Line
In-Goal Area
22.00
Dead-Ball Line
Touch Line
100.00m
Touch-in-Goal Line

PITCH (SOCCER / RUGBY FIELD)

LAYERWORKS CROSS-SECTION

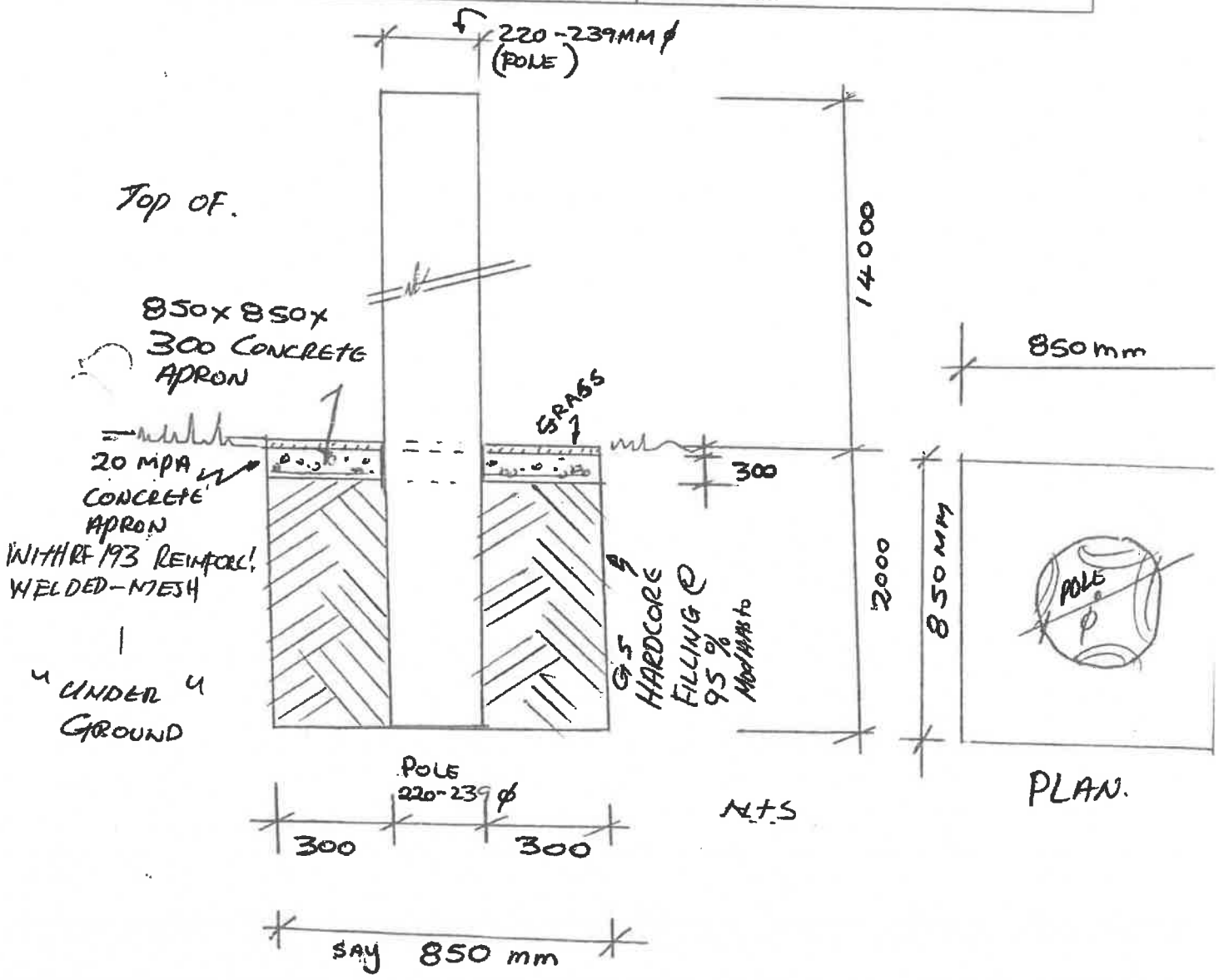


DRAWING N.T.S

High Mast Light Pole Specification

Application:
Eucalyptus poles, kiln dried and pressure treated with Creosote, to SANS 754 specification, for use in high mast lightning installations.

Species	Eucalyptus – grandis – grandis hybrid – saligna – cloeziana
Hazard Class	H4 (ground contact)
Strength	55 MPa/75 MPa
Preservative Specification	SANS 616
Min. Average Retention	115 Kg/m3
Min. Preservative Penetration	15 mm
Length	14m ABOVE NATURAL GROUND LEVEL
Top Diameter	220 – 239mm

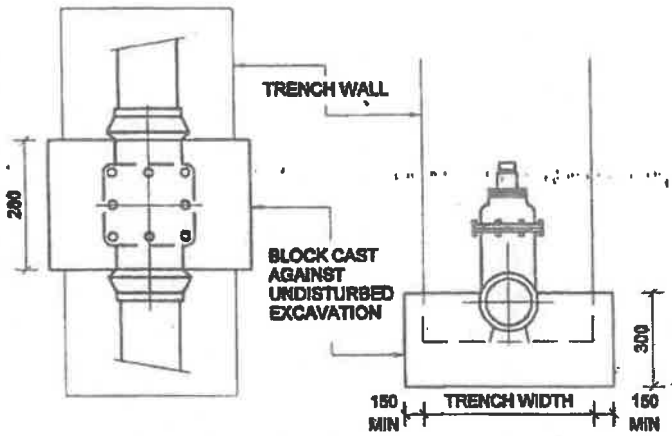


High Mast Light Pole Specification

Application:

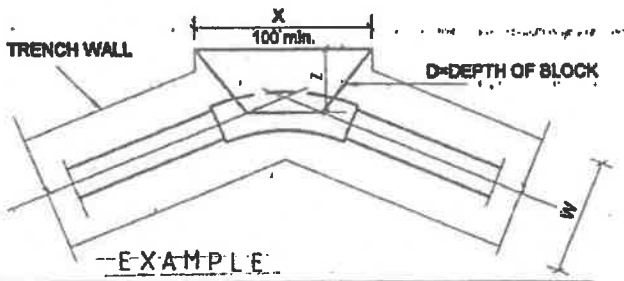
Eucalyptus poles, kiln dried and pressure treated with Creosote, to SANS 754 specification, for use in high mast lightning installations.

Species	Eucalyptus – grandis – grandis hybrid – saligna – cloeziana
Hazard Class	H4 (ground contact)
Strength	55 MPa/75 MPa
Preservative Specification	SANS 616
Min. Average Retention	115 Kg/m3
Min. Preservative Penetration	15 mm
Length	14m
Top Diameter	220 – 239mm



EXAMPLE

THRUST BLOCK

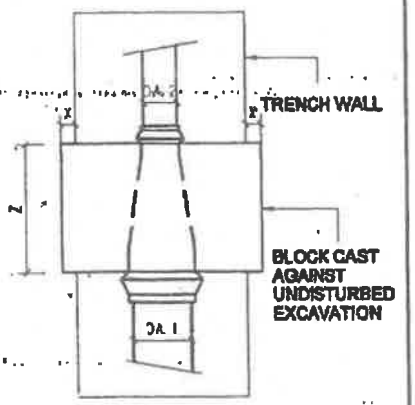


EXAMPLE

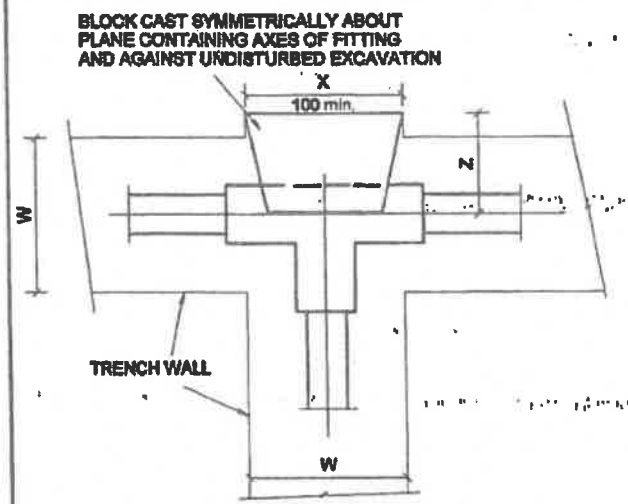
DAIMETER	11.25 DEGREE			22.5 DEGREE			45 DEGREE		
	D	X	A(m²)	D	X	A(m²)	D	X	A(m²)
200	400	600	0.04	400	600	0.04	400	600	0.09

NOTE : Z SHALL BE THE MINIMUM OF X/2 OR W/2

THRUST BLOCK FOR 45, 22.5 AND 11.25 DEGREE BENDS



PIPE DIA.1	PIPE DIA.2	D	X	Z
200	100	400	150	200

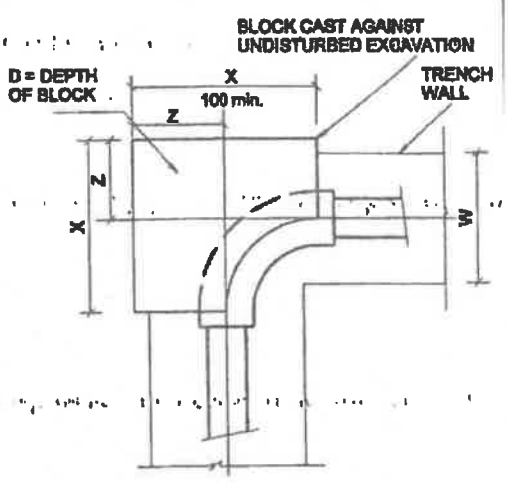


EXAMPLE

DIAMETER	D	X	A(m²)
200	400	600	0.11

NOTE : Z SHALL BE THE MINIMUM OF X/2 OR W/2

THRUST BLOCK FOR TEE



EXAMPLE

DAIMETER	D	X	A(m²)
200	400	600	0.16

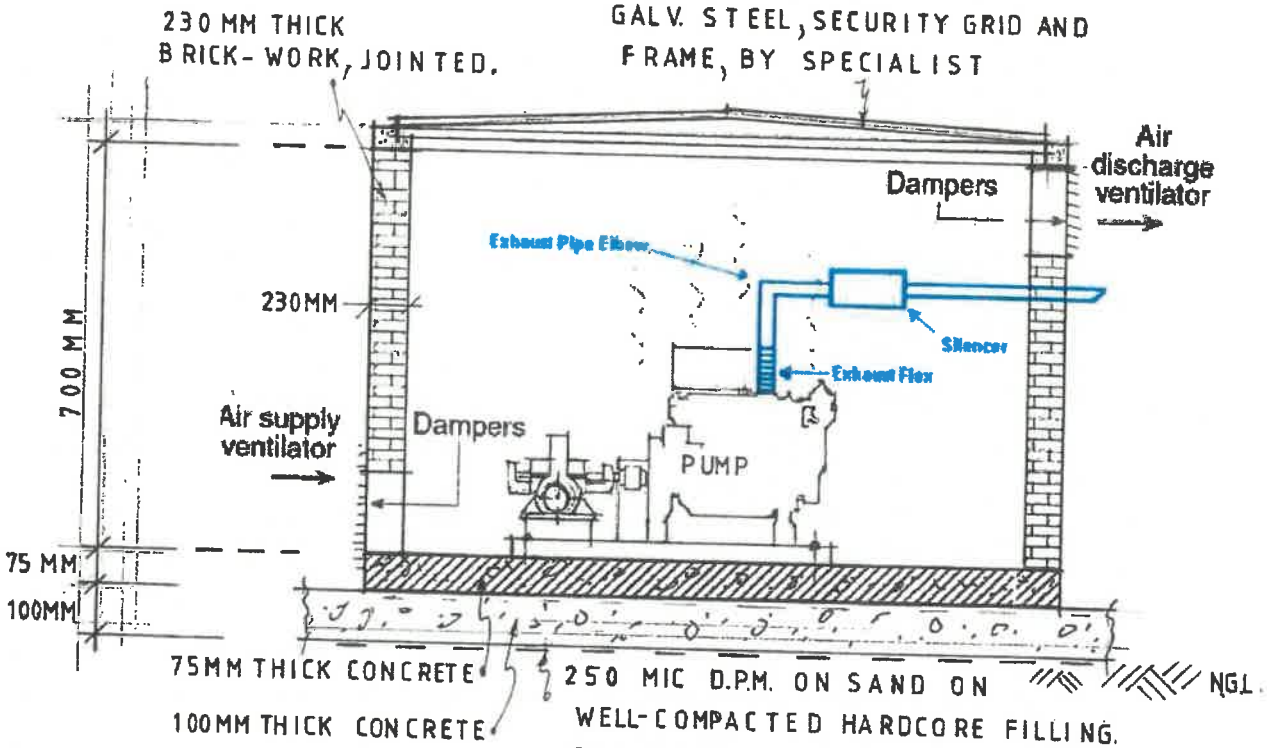
NOTE : Z SHALL BE THE MINIMUM OF X/2 OR W/2

THRUST BLOCK FOR 90 DEGREE BEND

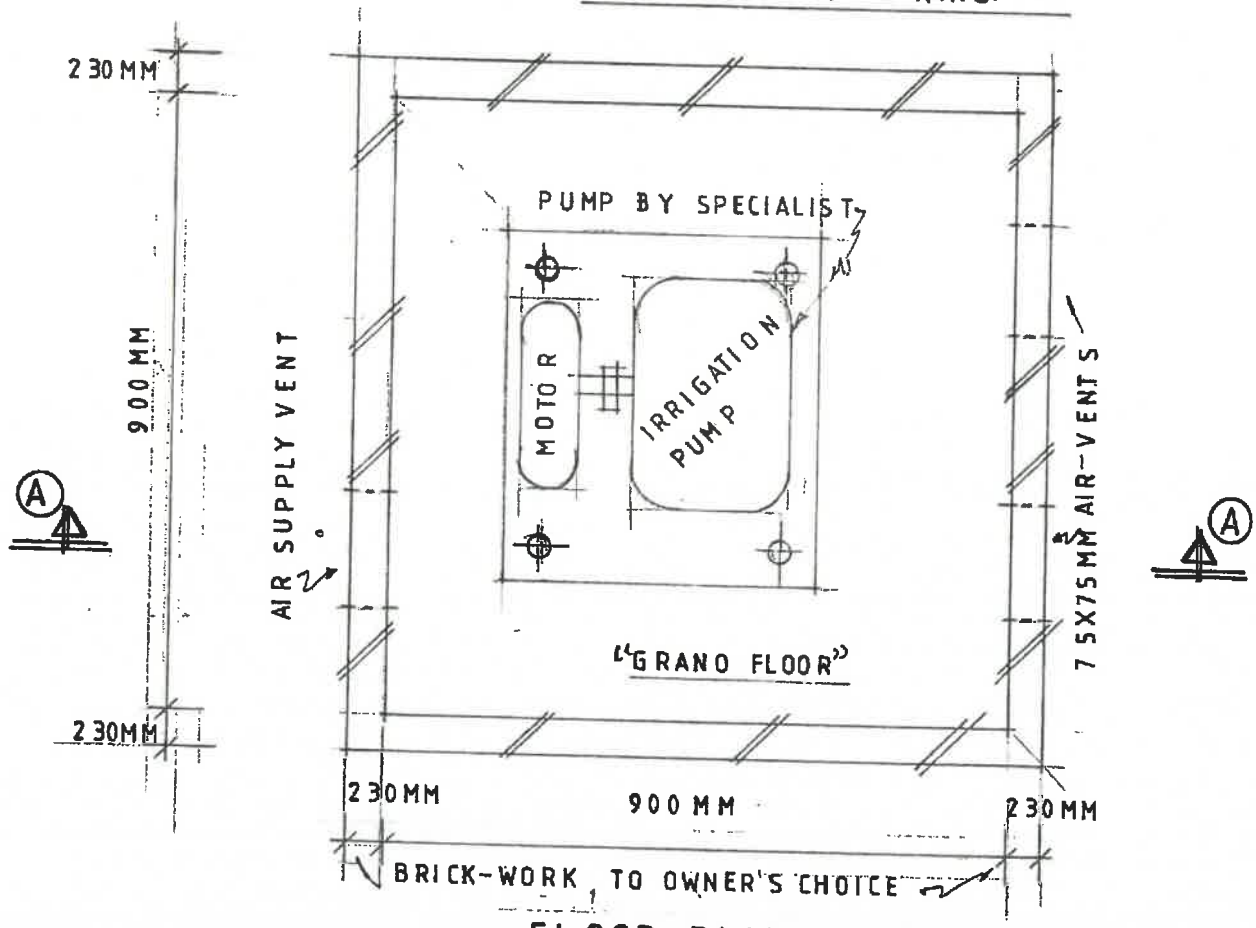
DRAWN:- K ACKERMANN

DATE :- SEPT. 2020

IRRIGATION CHAMBER FOR IRRIGATION PUMP AND MOTOR



SECTION A≠A n.t.s.



FLOOR PLAN n.t.s.

CLIENT :-

KOUGA MUNICIPALITY

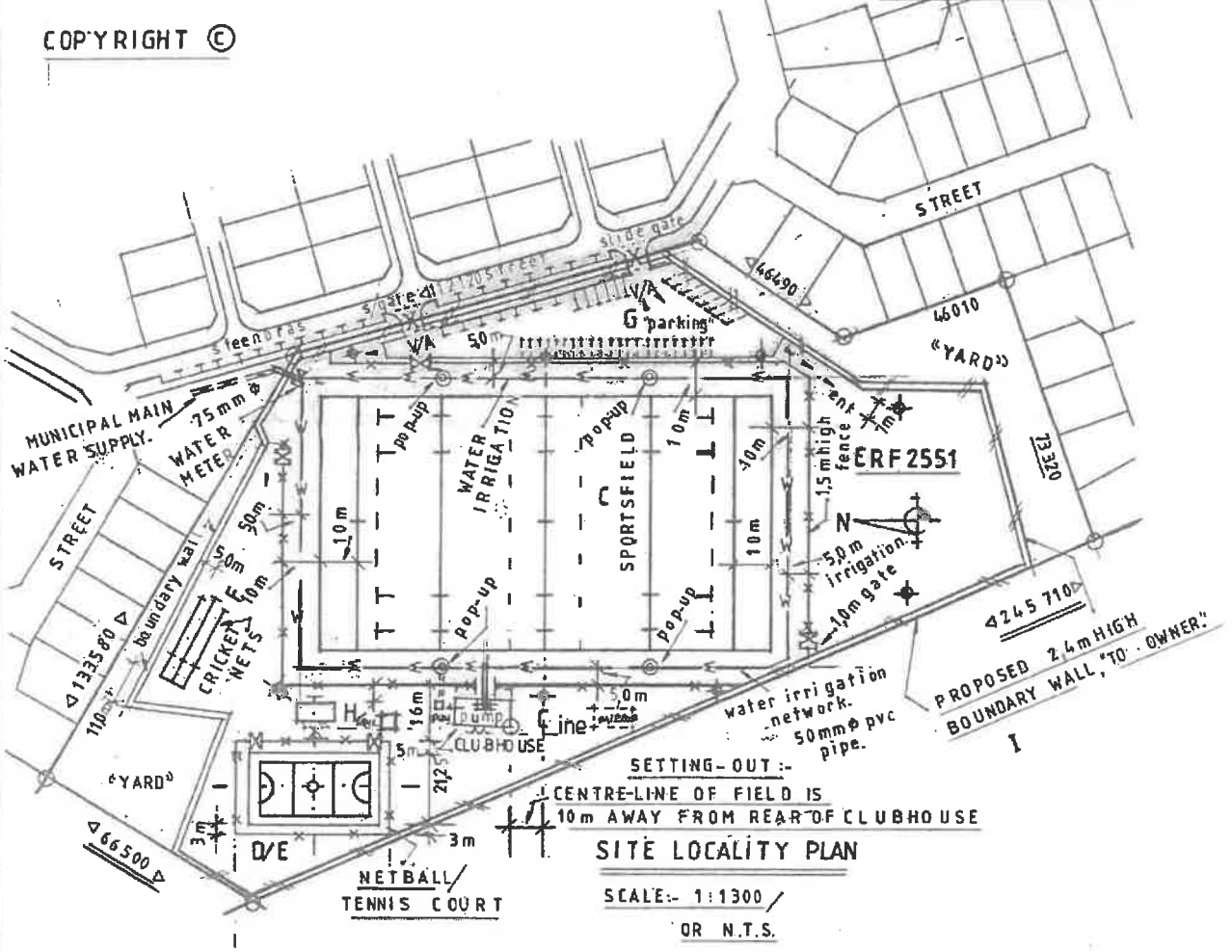
PROJECT :-

PROPOSED SPORTS RECREATION PLAYING-AREA AND BUILDING FACILITIES ON ERF 2551, SEA VISTA, ST FRANCIS BAY.

DRAWN :- K.E.E. ACKERMANN	CHECKED :-
DESIGN :- K.E.E. ACKERMANN	
DATE :- JUNE 2018	

LEGEND :-

A ▷ CLUBHOUSE / CHANGEROOMS
B ▷ CARETAKER'S DWELLING
C ▷ SPORTSFIELD
D ▷ NETBALL COURT
E ▷ TENNIS COURT
F ▷ PRACTICE CRICKET NETS
G ▷ PARKING AREA
H ▷ ABLUTION FACILITIES
I ▷ BOUNDARY WALLS



SITE LOCALITY PLAN

SCALE :- 1:1300 / OR N.T.S.

EXACT POSITIONING OF FACILITIES ON-SITE MUST BE DETERMINED BY THE LOCAL AUTHORITY.

DATED :- SEPTEMBER 2020

WATER IRRIGATION PLAN

NORTH

E
S
W

NB !!!

WATER IRRIGATION TO BE CONFIRMED ON-SITE.

WATER SUPPLY TO BE RINGFEED, 50ø(mm) PVC. PIPE. PROVIDE WATER-IRRIGATION PUMP AT CLUBHOUSE BUILDING

"TO BE READ IN-CONJUNCTION-WITH OTHER LAYOUT PLANS."

SHEET Nº OF SHEETS

SEA-VISTA SPORTS FACILITIES

DRAWING Nº