Annexture: DRAWINGS

For

KEIMOES MAGISTRATE OFFICE: CONSTRUCTION OF A NEW BUILDING INCLUDING PARKING BAYS (KIM03/2023)

Architectural for (KIM03/2023)

Locality and Site plan 25716-A1000-00 & A25716-1001-00

Basement Floor plan 25716-A2000-00

Ground Floor plan 25716-A2001-00

First Floor plan 25716-A2002-00

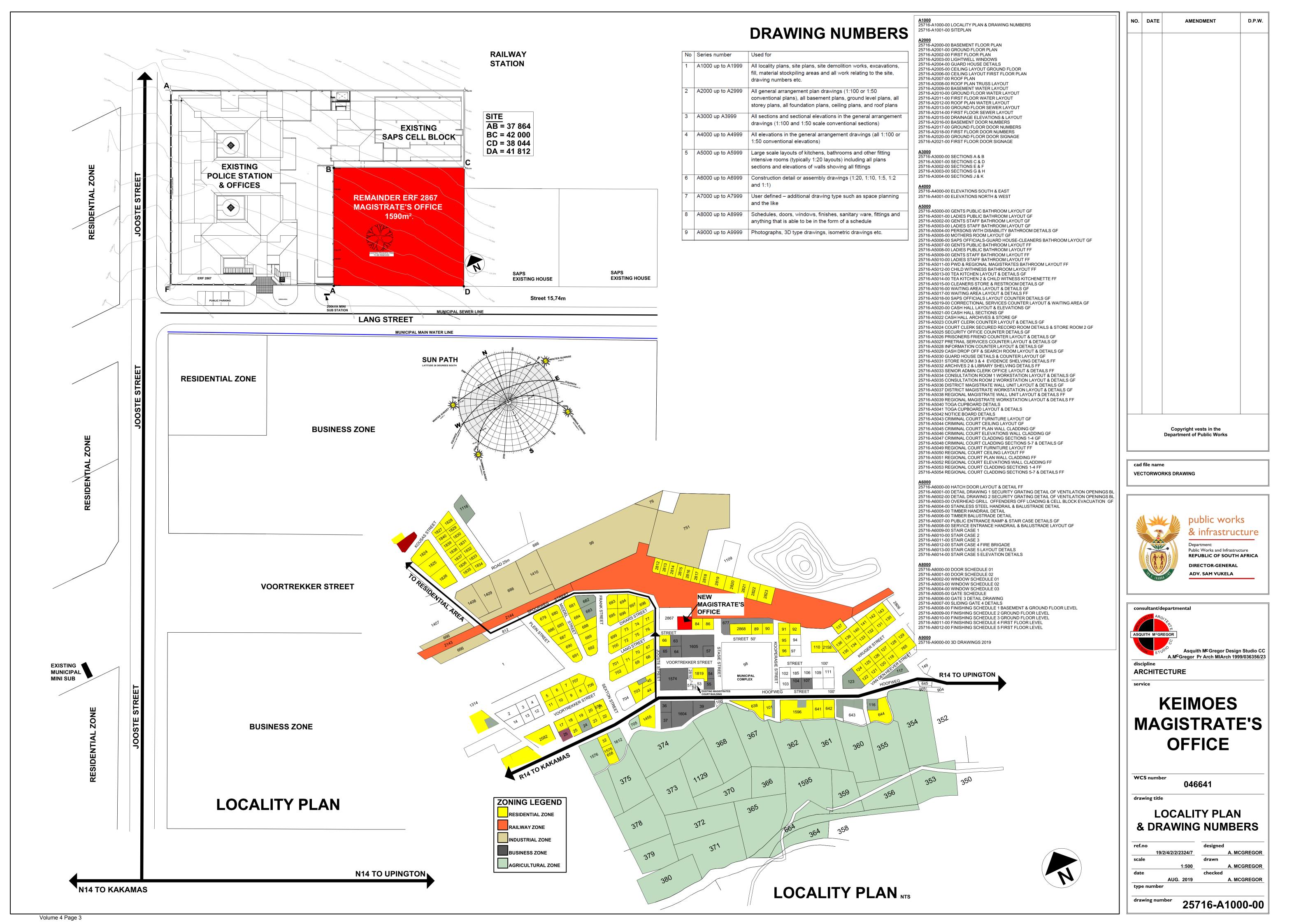
Sections 25716-A3002-00

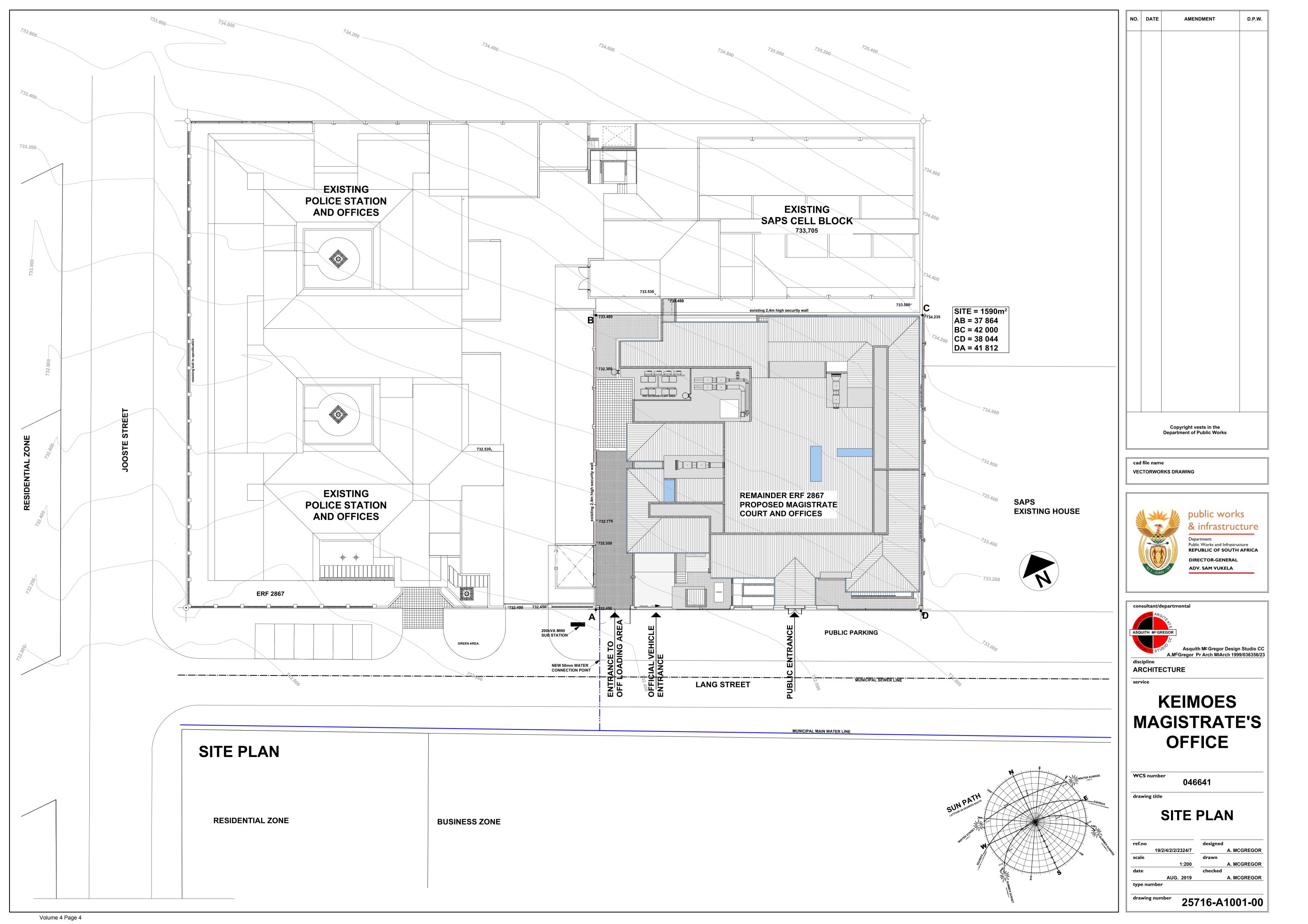
Elevations 25716-A4000-00 & A4001-00

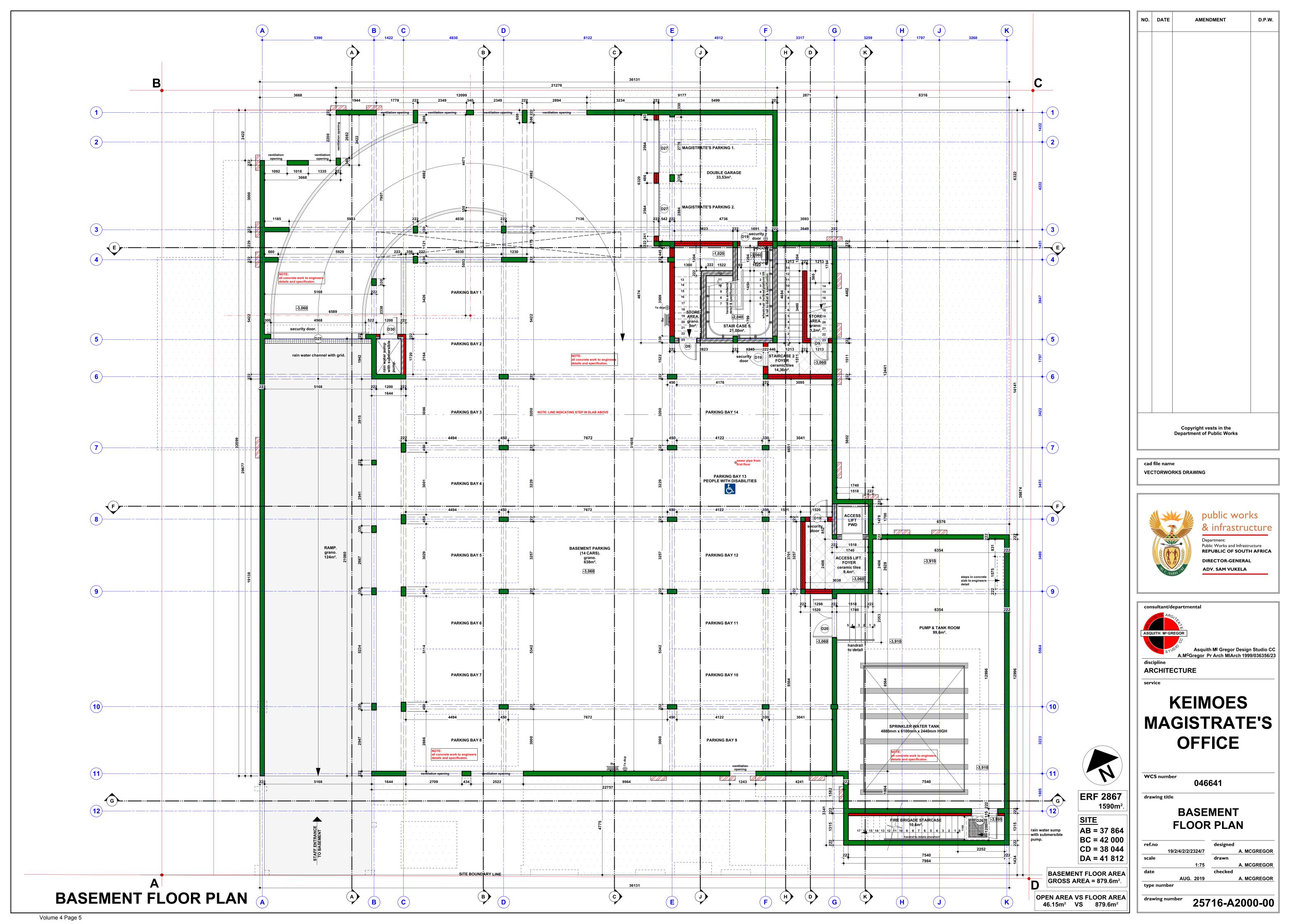
Workstation's layouts, wall units, etc 25716-A5034 to A5039

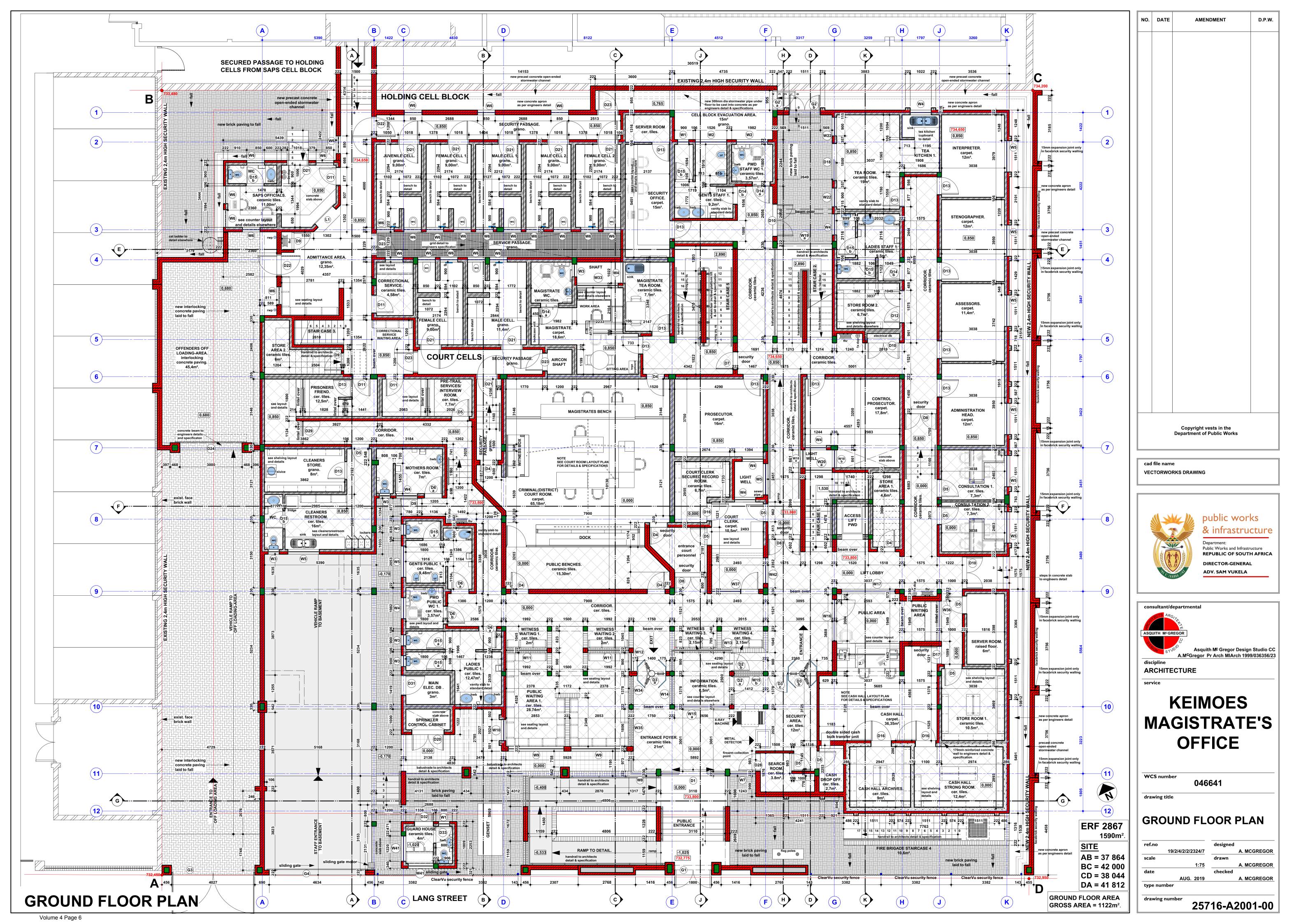
Stainless steel handrails, notice boards & toga 25716-A6004, A6015 & A6016

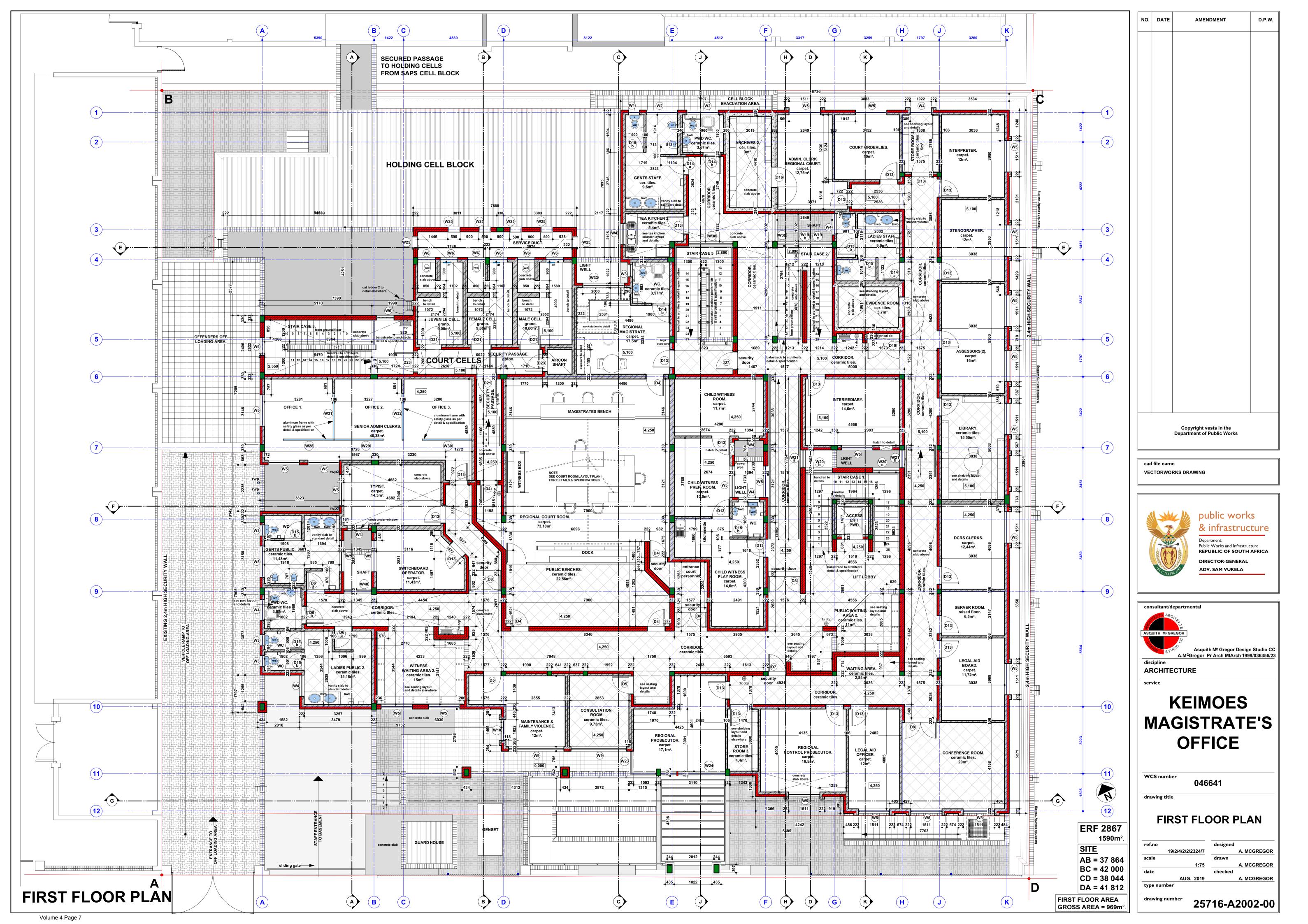
Court Furniture 25716-A6017 to A6020

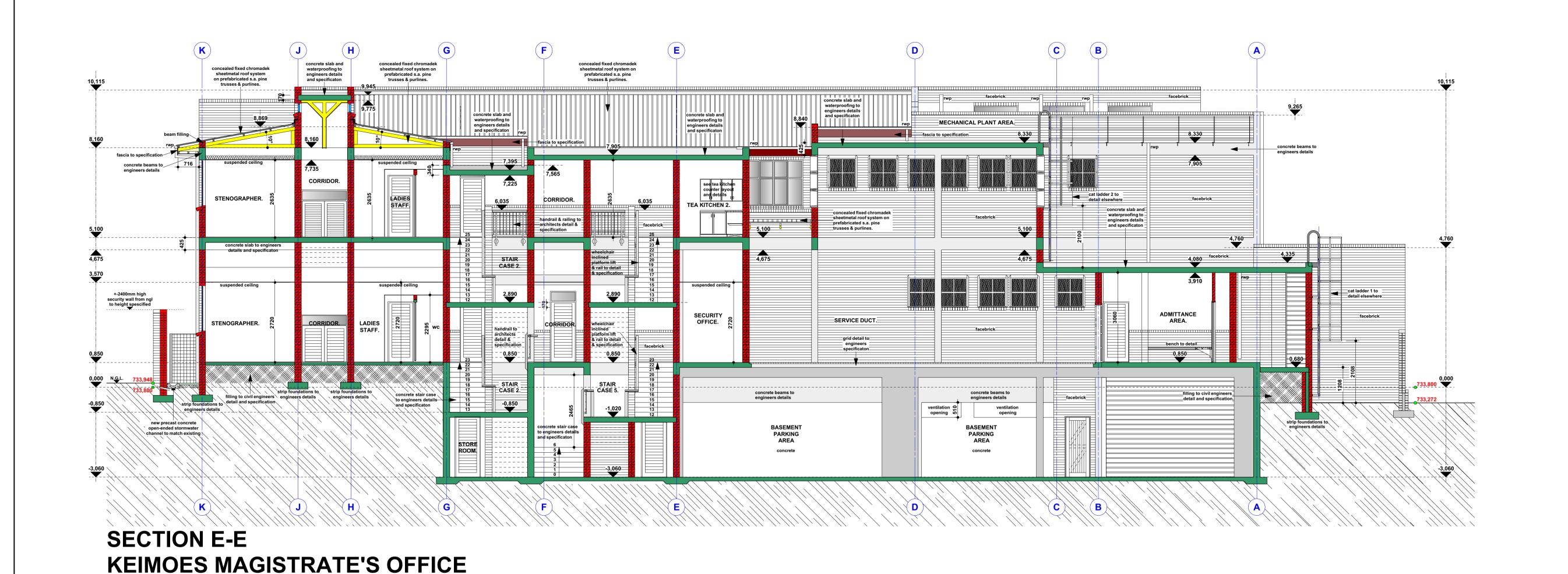


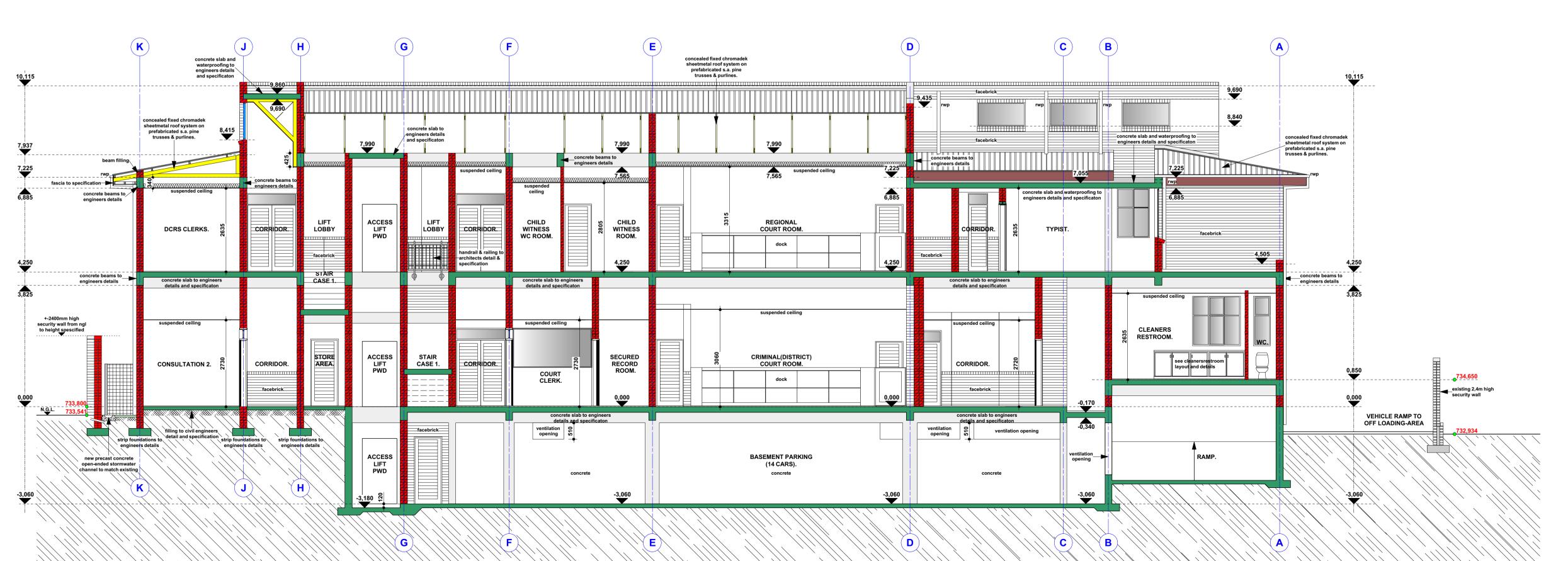




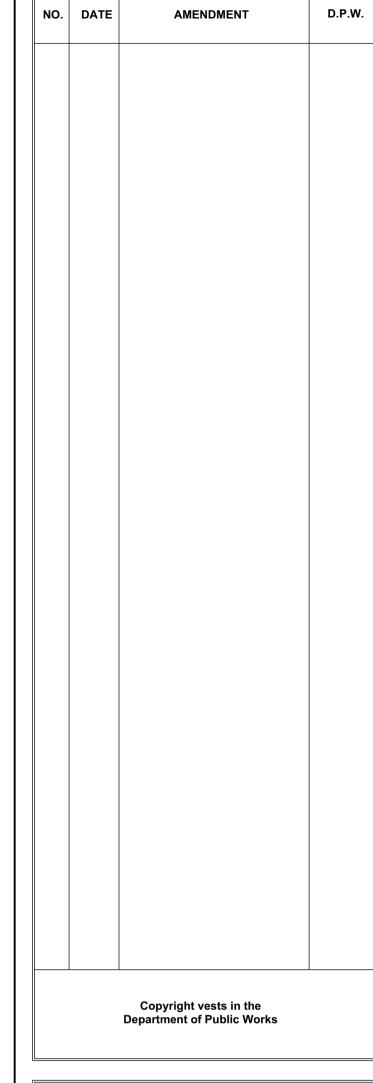




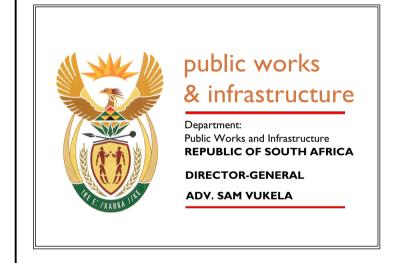


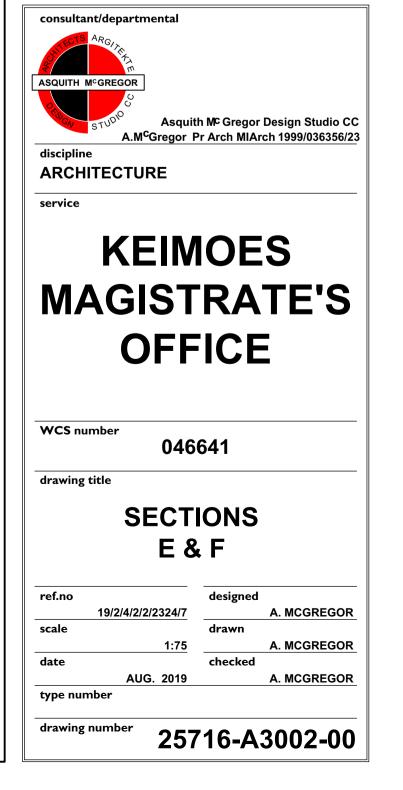


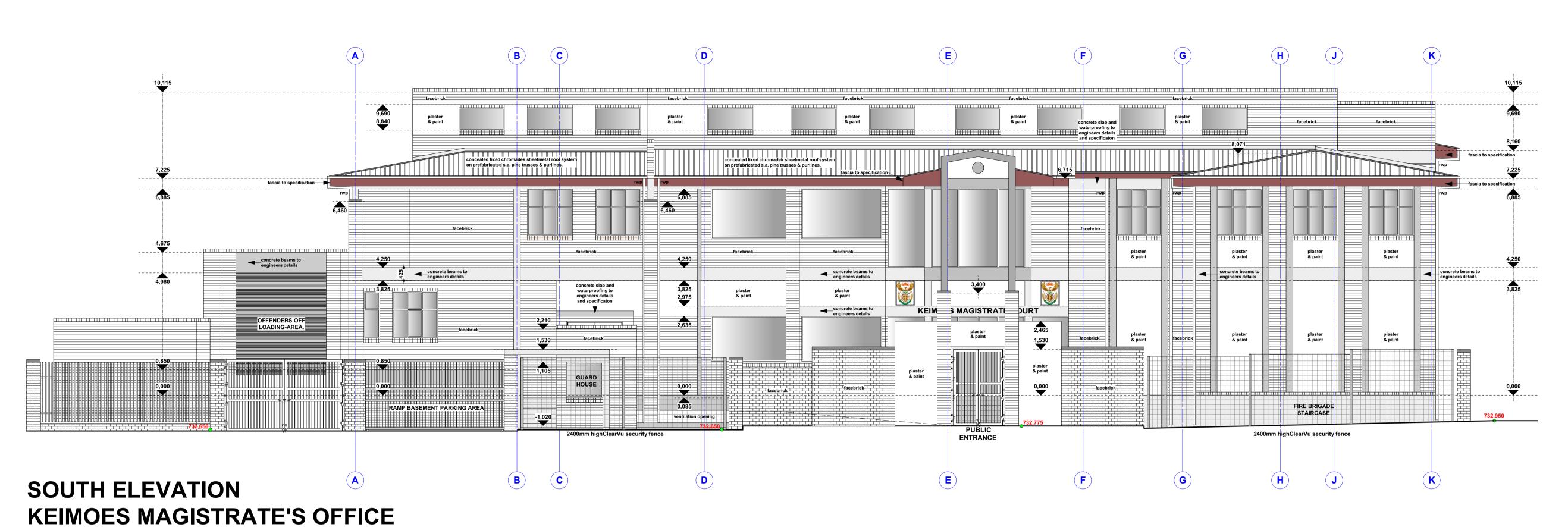


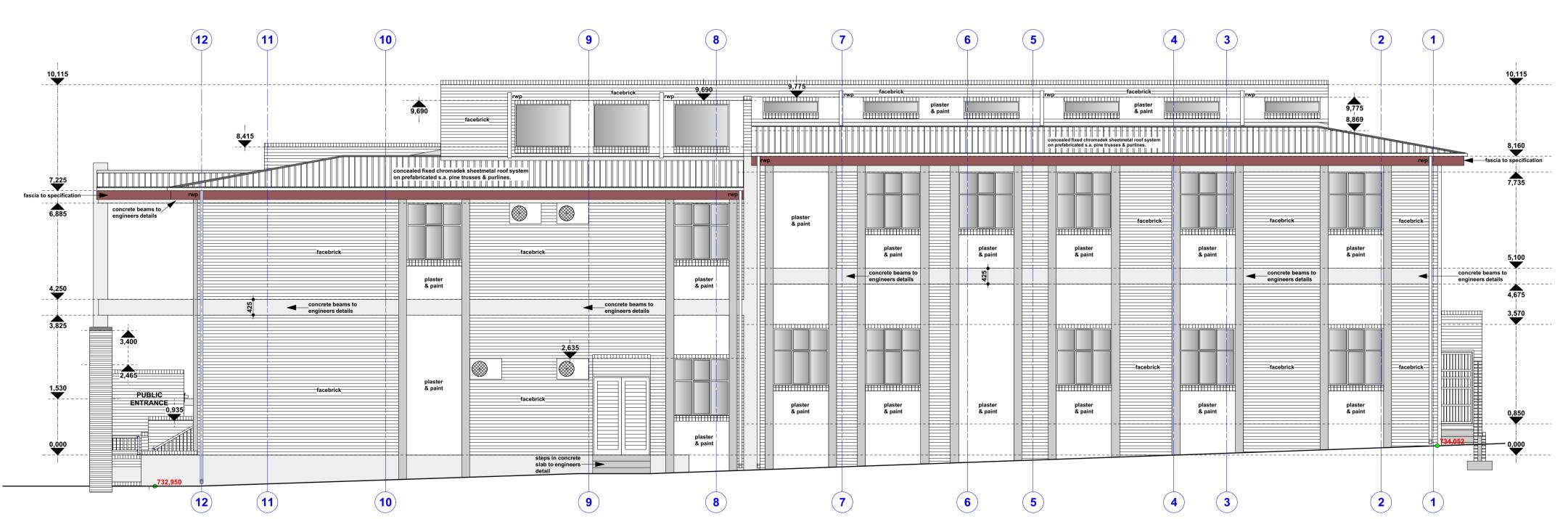


cad file name
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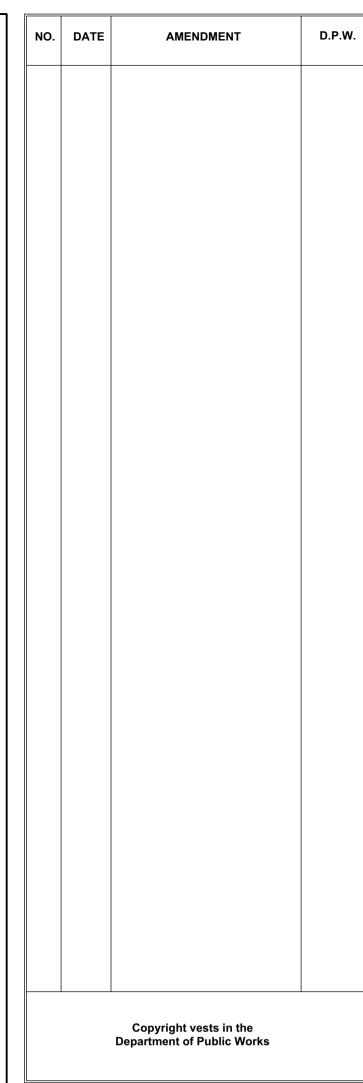






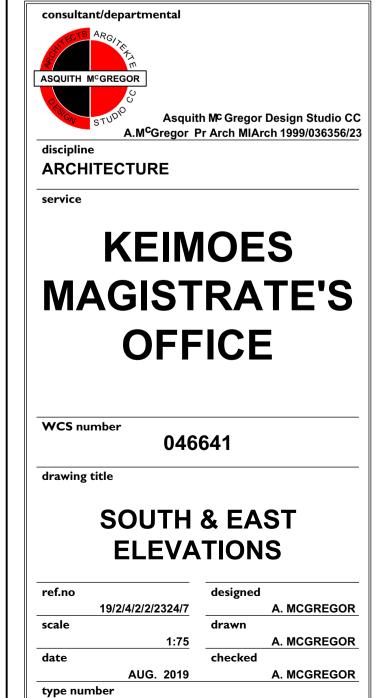


EAST ELEVATION
KEIMOES MAGISTRATE'S OFFICE

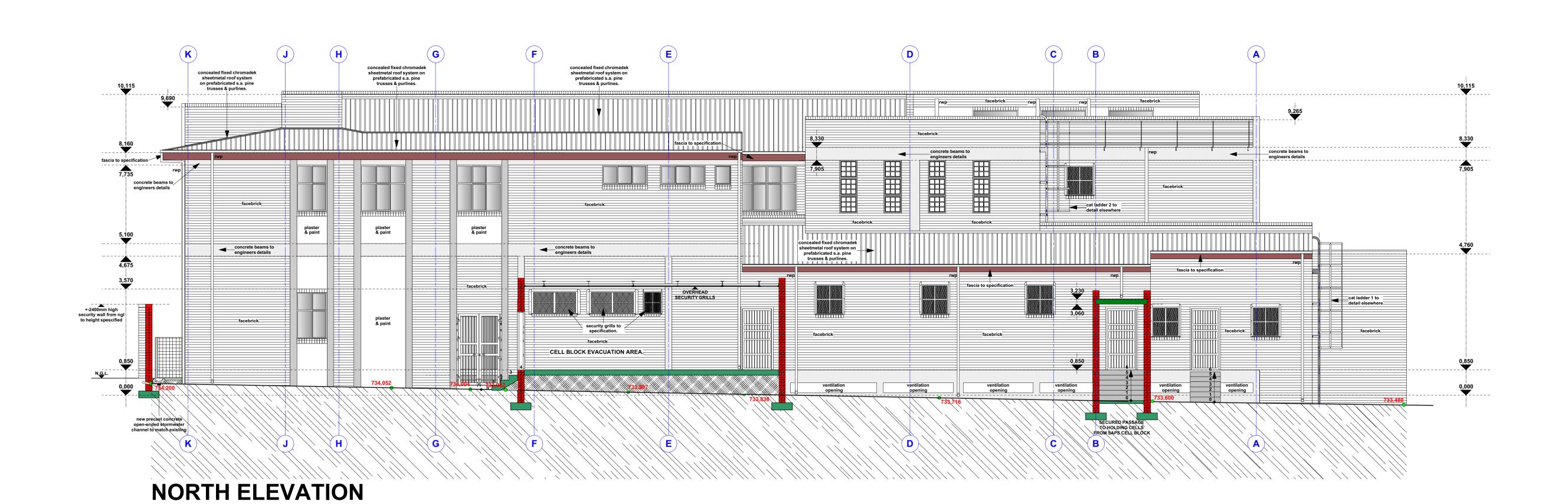


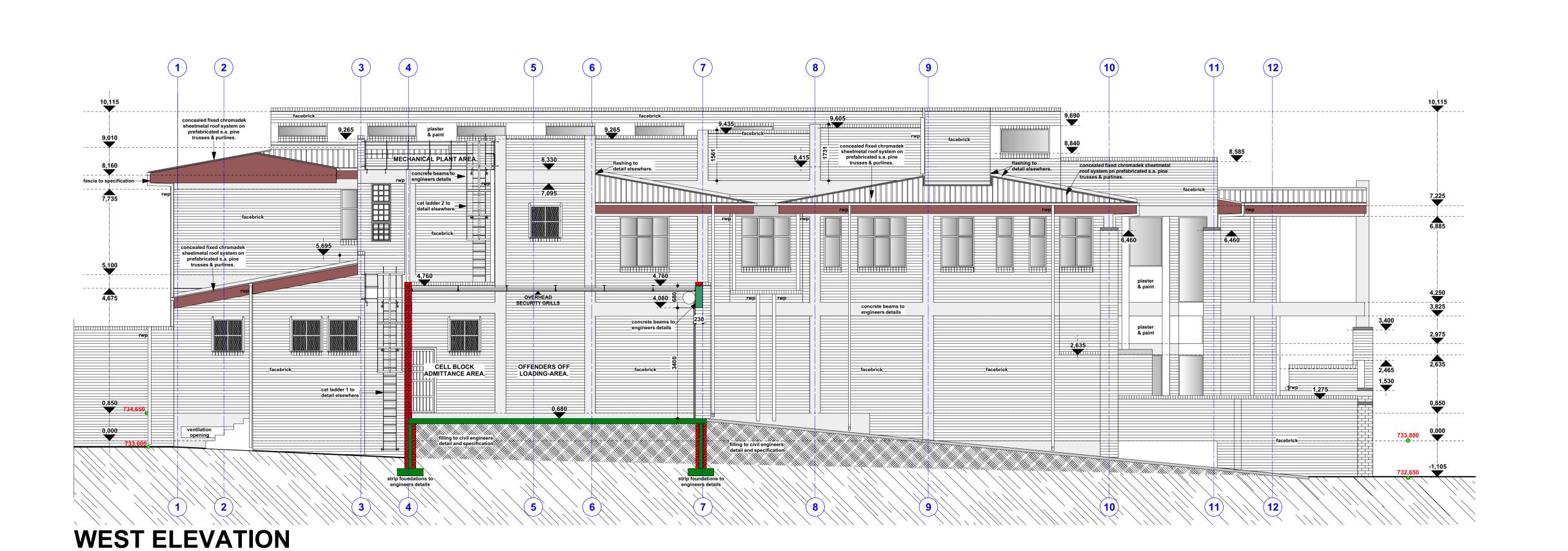
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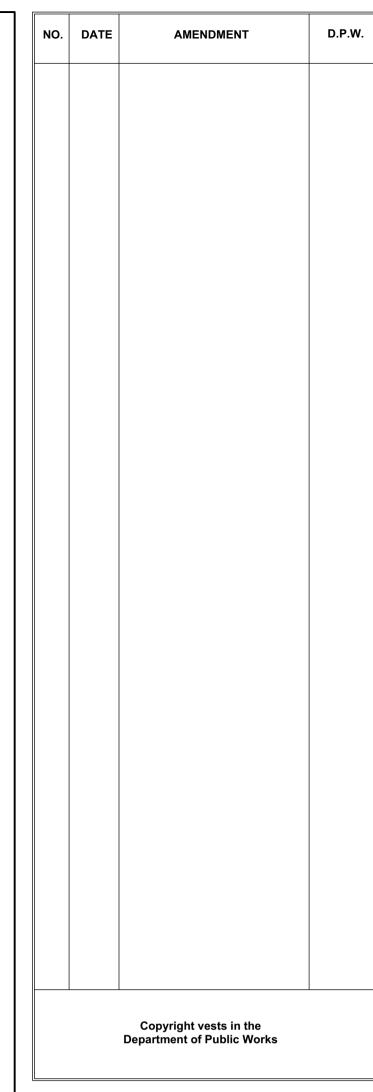




25716-A4000-00

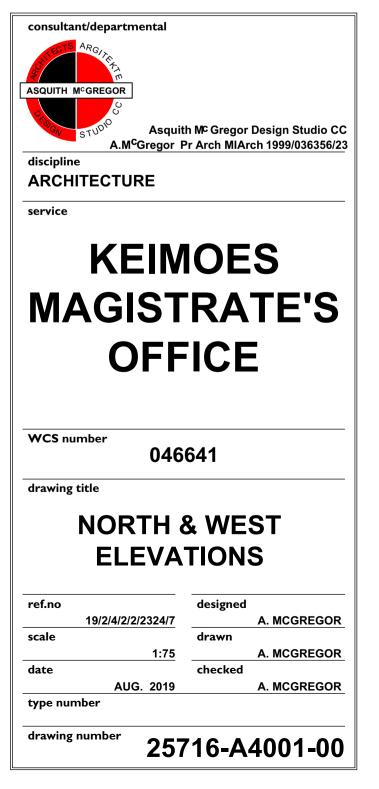






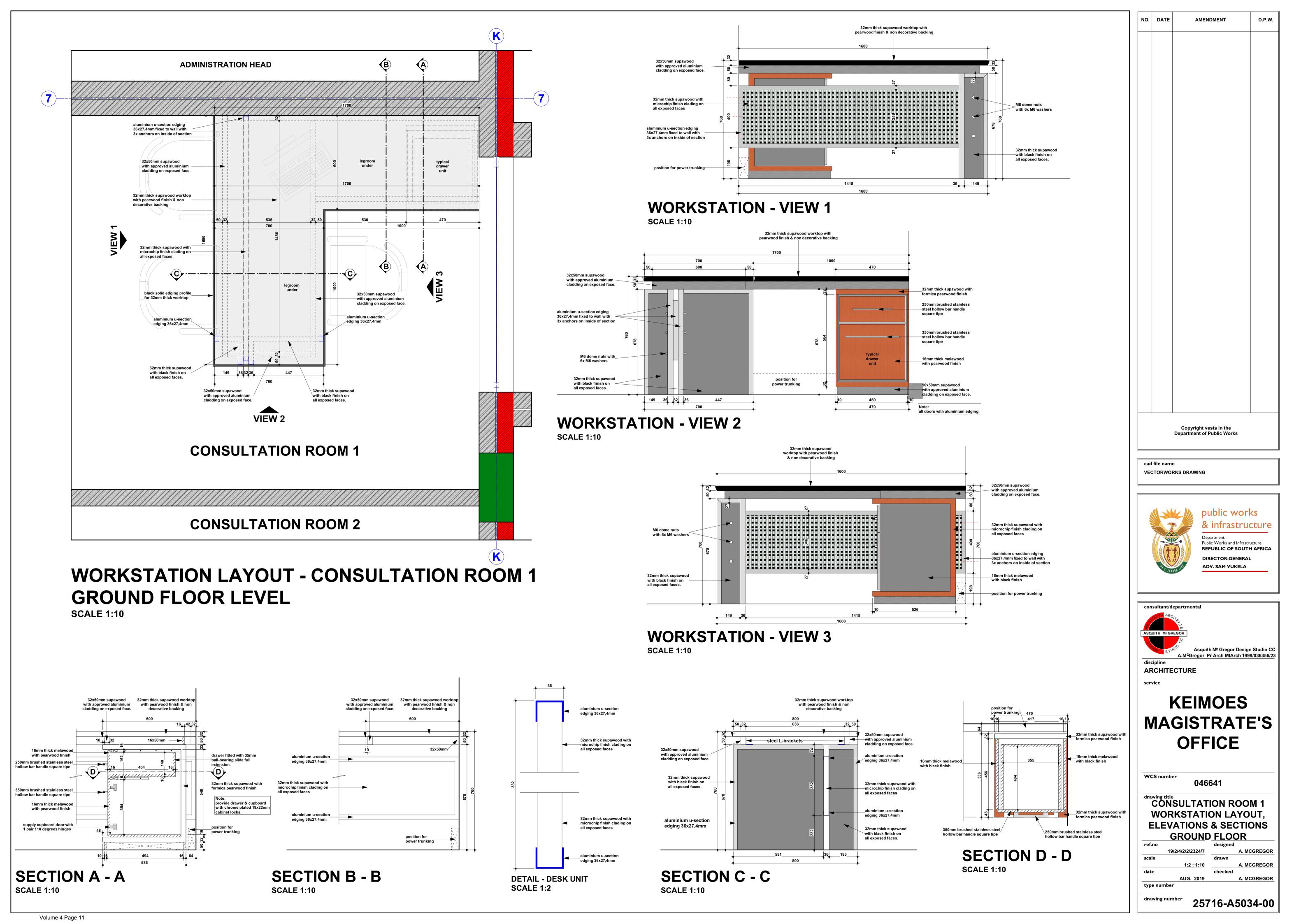
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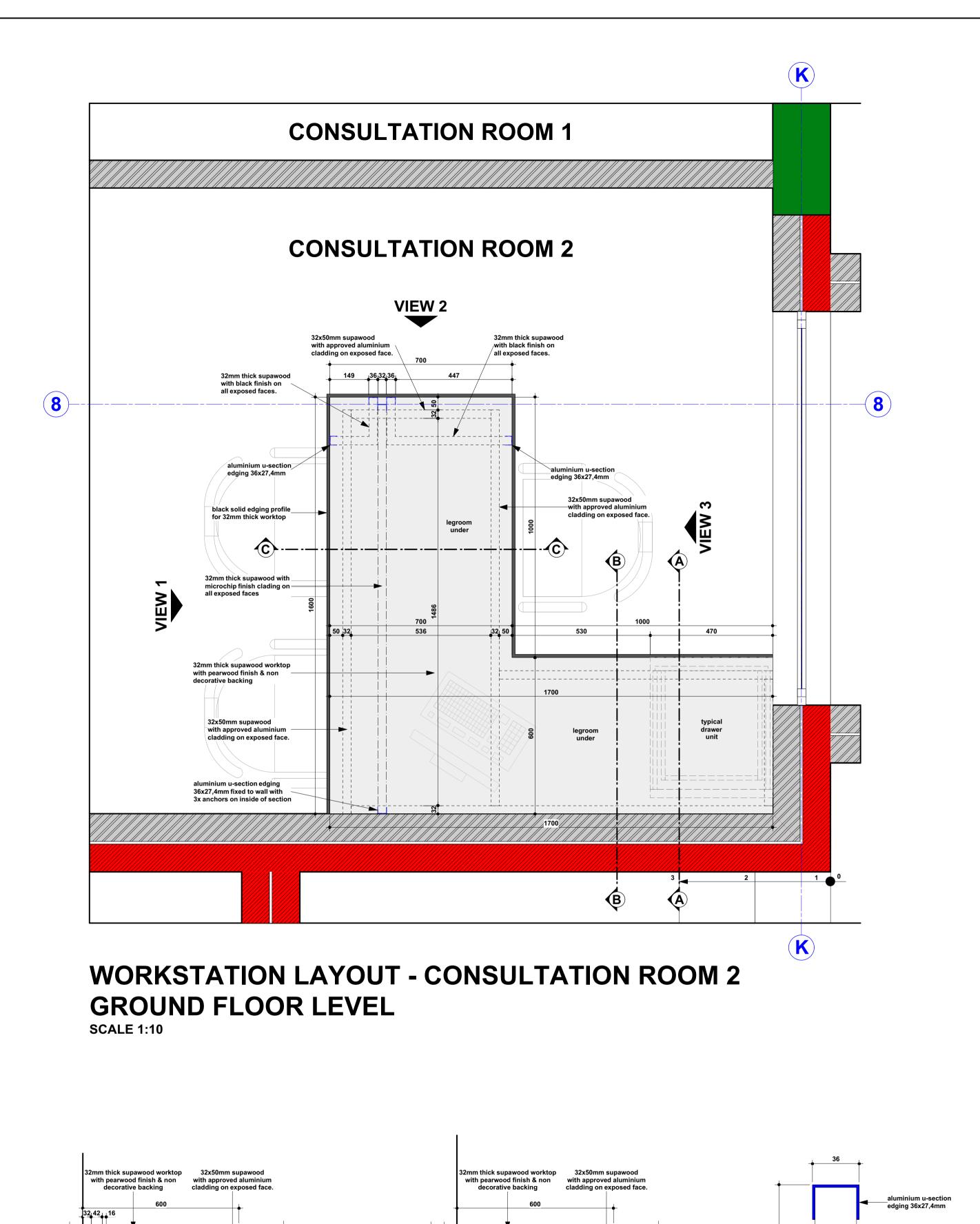




KEIMOES MAGISTRATE'S OFFICE

KEIMOES MAGISTRATE'S OFFICE





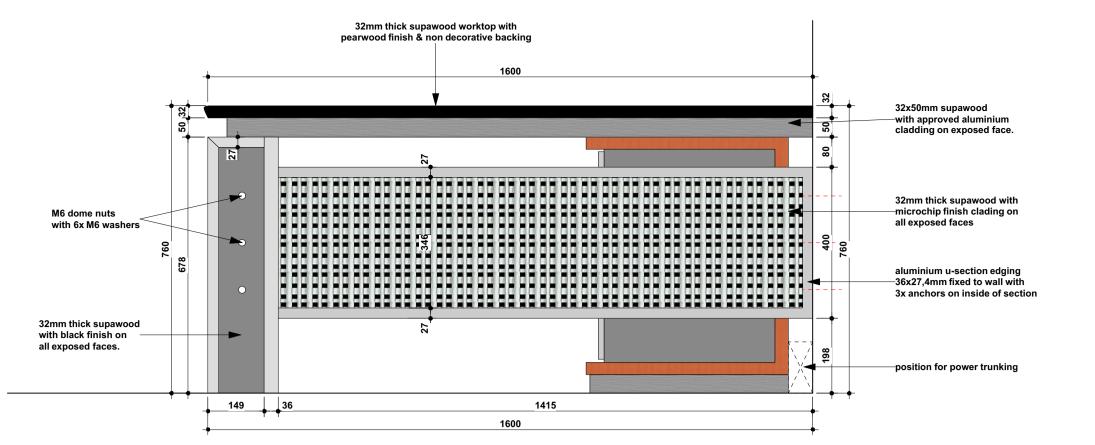
32x50mm

_position for power trunking

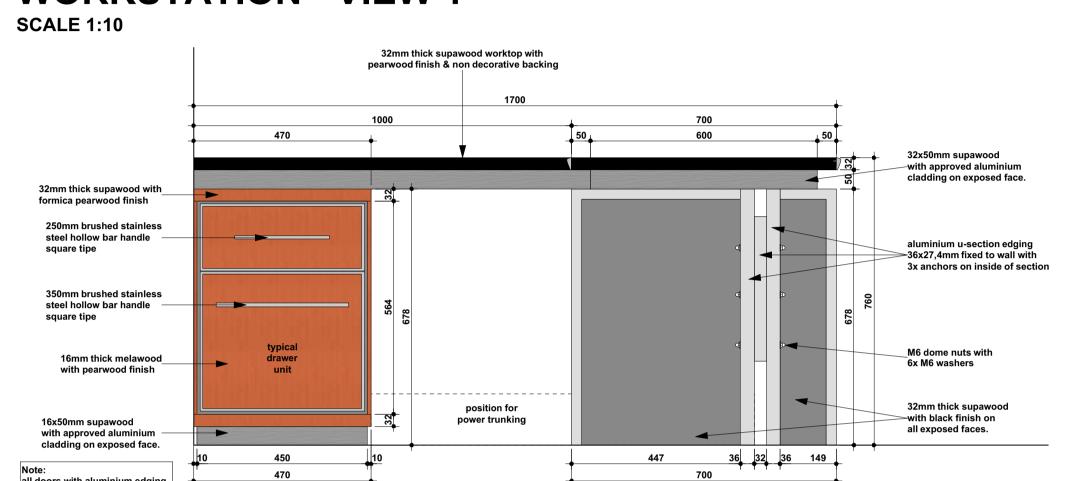
SECTION B - B

SCALE 1:10

250mm brushed stainless steel

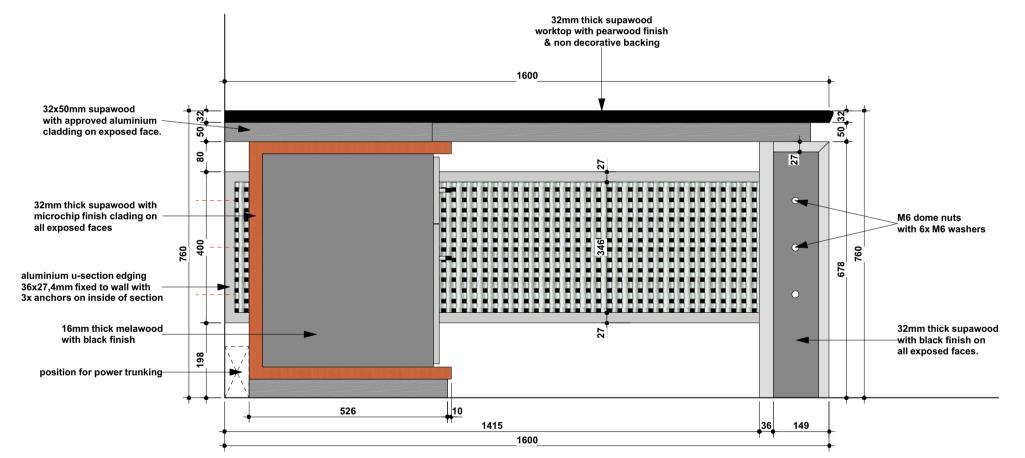


WORKSTATION - VIEW 1



WORKSTATION - VIEW 2

SCALE 1:10



WORKSTATION - VIEW 3

SCALE 1:10

SCALE 1:10

32mm thick supawood with

-microchip finish clading on

32mm thick supawood with

microchip finish clading on

_aluminium u-section edging 36x27,4mm

DETAIL - DESK UNIT

SCALE 1:2

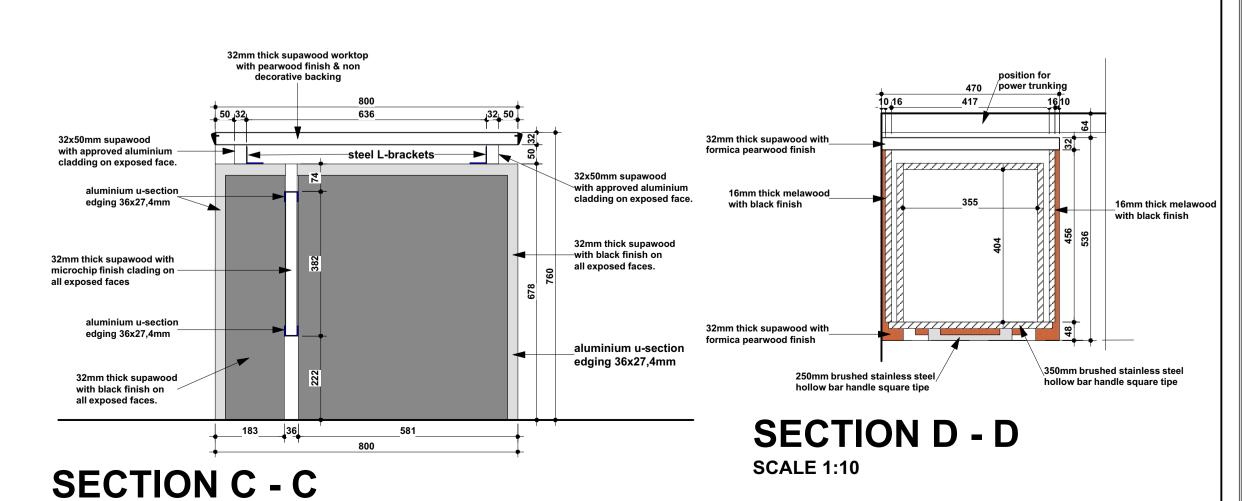
all exposed faces

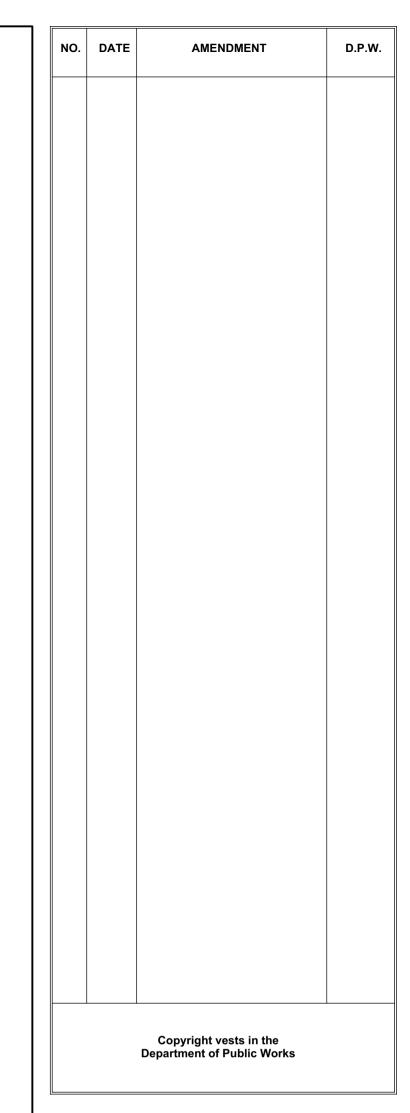
edging 36x27,4mm

edging 36x27,4mm

32mm thick supawood with

microchip finish clading on

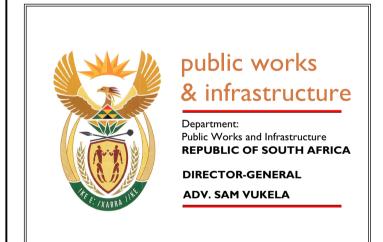


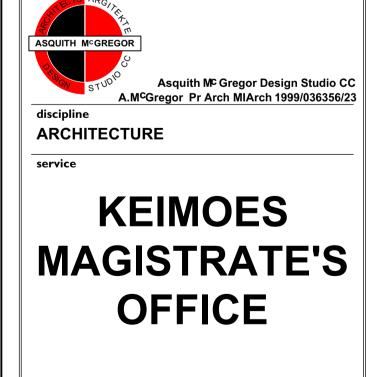


cad file name
VECTORWORKS DRAWING

consultant/departmenta

WCS number





drawing title
CONSULTATION ROOM 2
WORKSTATION LAYOUT,
ELEVATIONS & SECTIONS
GROUND FLOOR

ref.no

19/2/4/2/2/2324/7
scale

1:2;1:10
date
AUG. 2019
A. MCGREGOR
checked

AUG. 2019
A. MCGREGOR

25716-A5035-00

046641

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SCALE 1:10

ball-bearing slide full

32mm thick supawood with

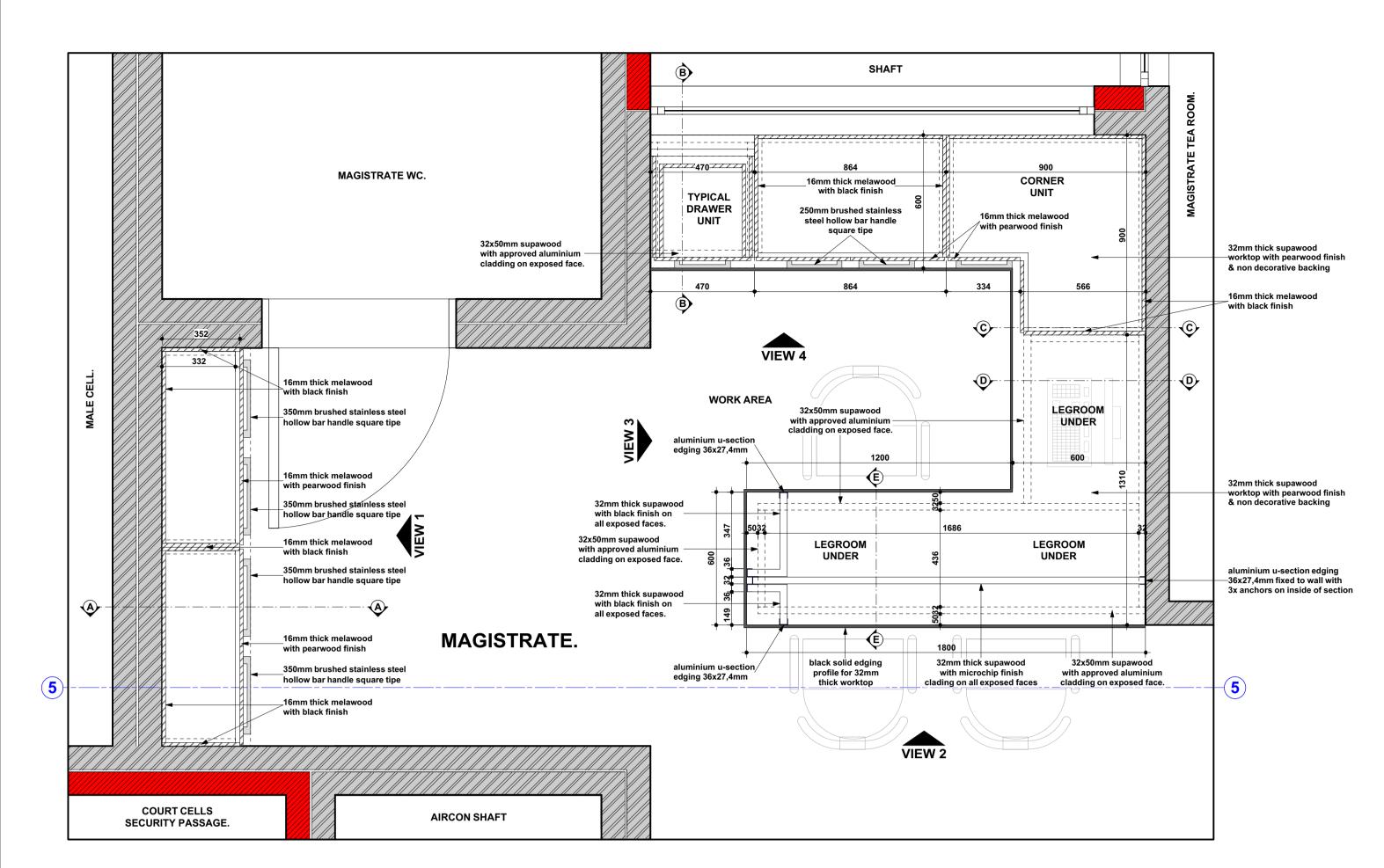
power trunking

SECTION A - A

formica pearwood finish

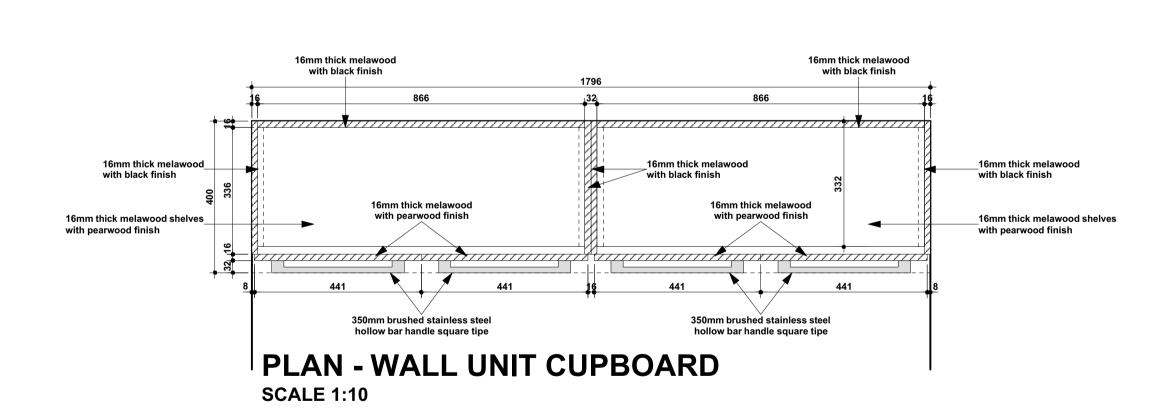
provide drawer & cupboard with chrome plated 19x22mm

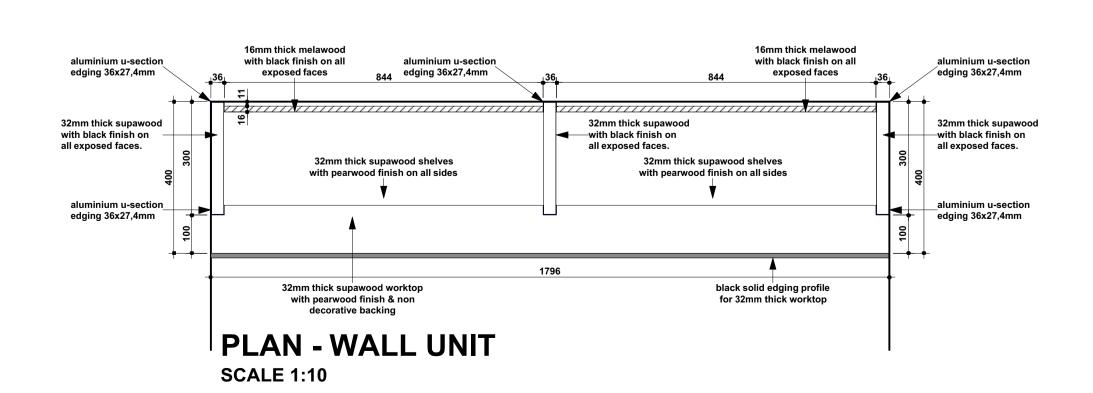
cabinet locks.

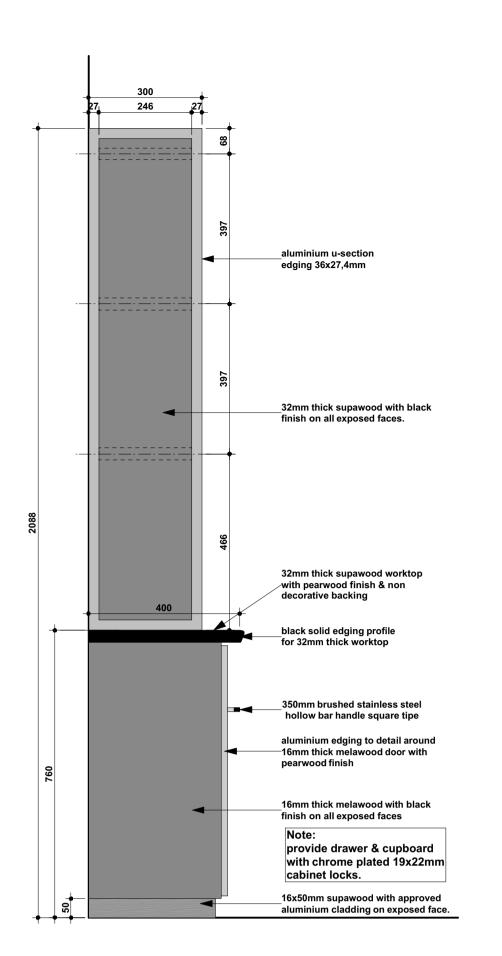


WORKSTATION LAYOUT - DISTRICT MAGISTRATE GROUND FLOOR LEVEL

SCALE 1:15

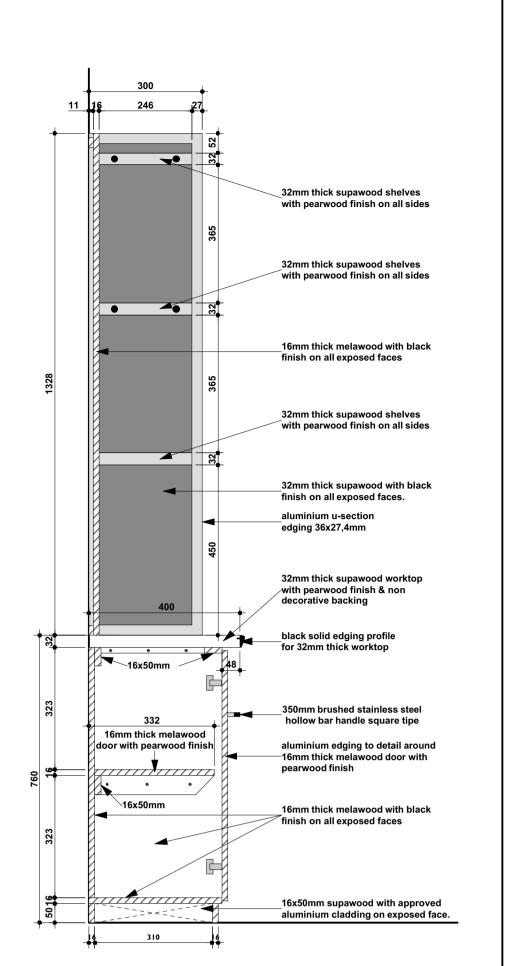




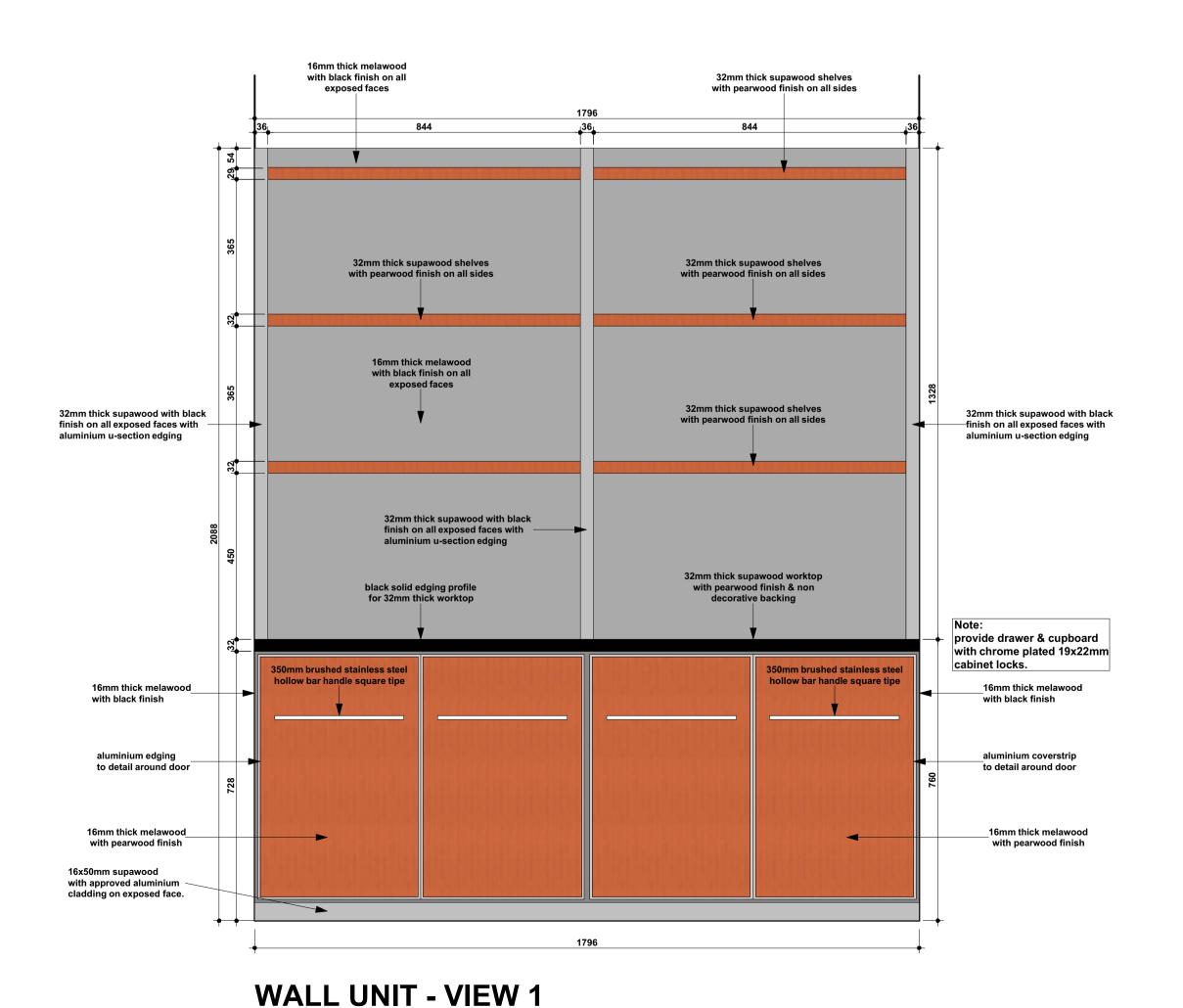


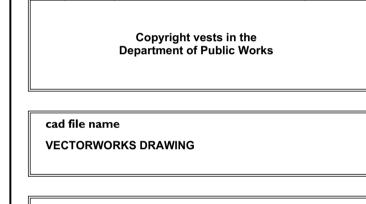
WALL UNIT - SIDE VIEW
SCALE 1:10

SCALE 1:10



SECTION A - A SCALE 1:10





D.P.W.

AMENDMENT

NO. DATE





KEIMOES MAGISTRATE'S OFFICE

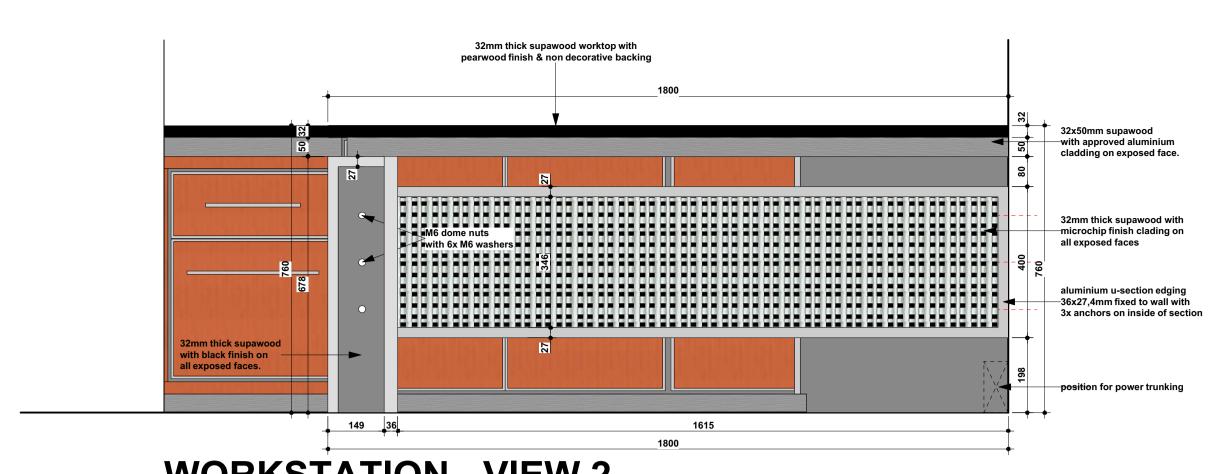
046641

WCS number

DISTRICT MAGISTRATE
WALL UNIT DETAILS,
SECTIONS & ELEVATIONS
GROUND FLOOR

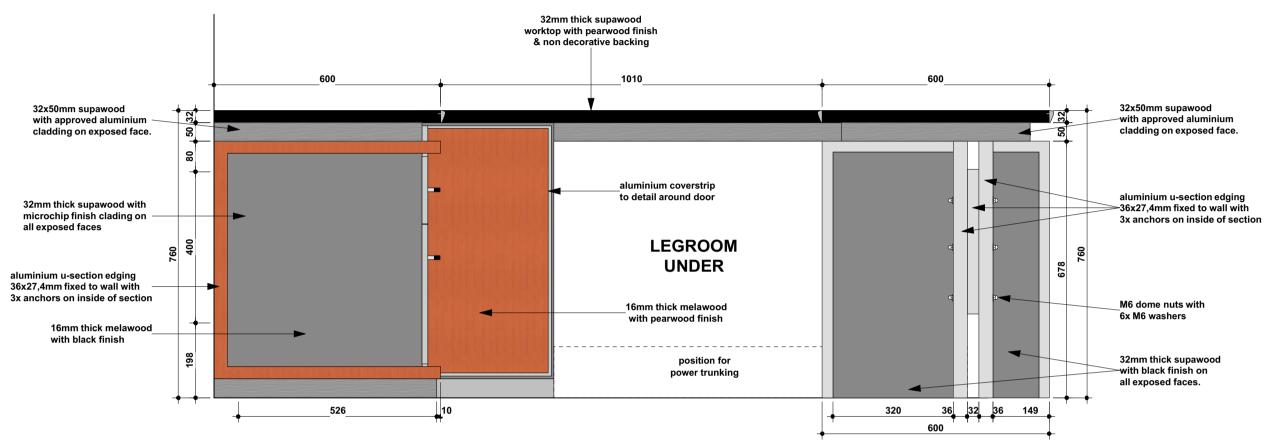
_ <u> </u>
designed
A. MCGREGOR
drawn
A. MCGREGOR
checked
A. MCGREGOR
716-A5036-0

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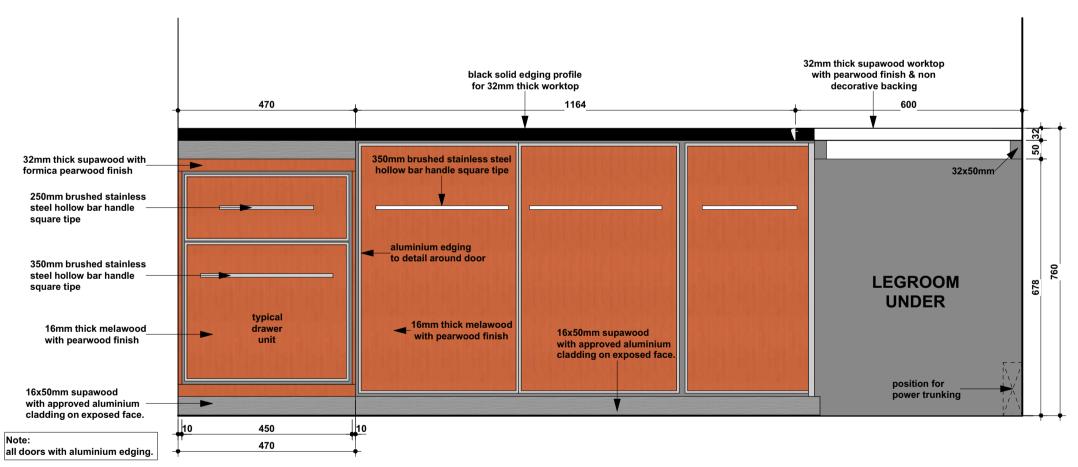
WORKSTATION - VIEW 2

SCALE 1:10



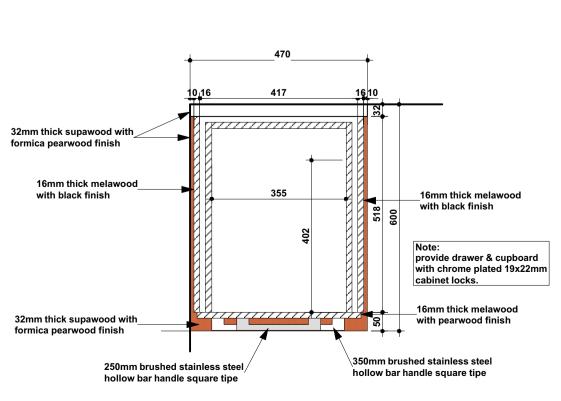
WORKSTATION - VIEW 3

SCALE 1:10

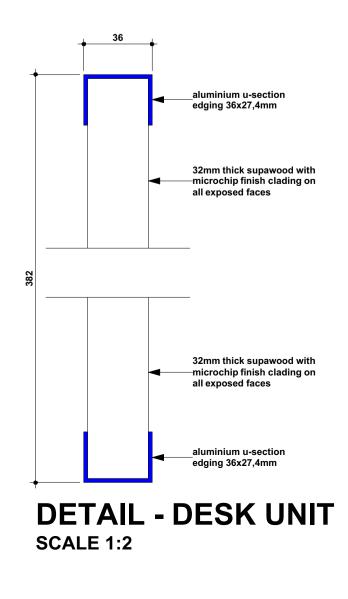


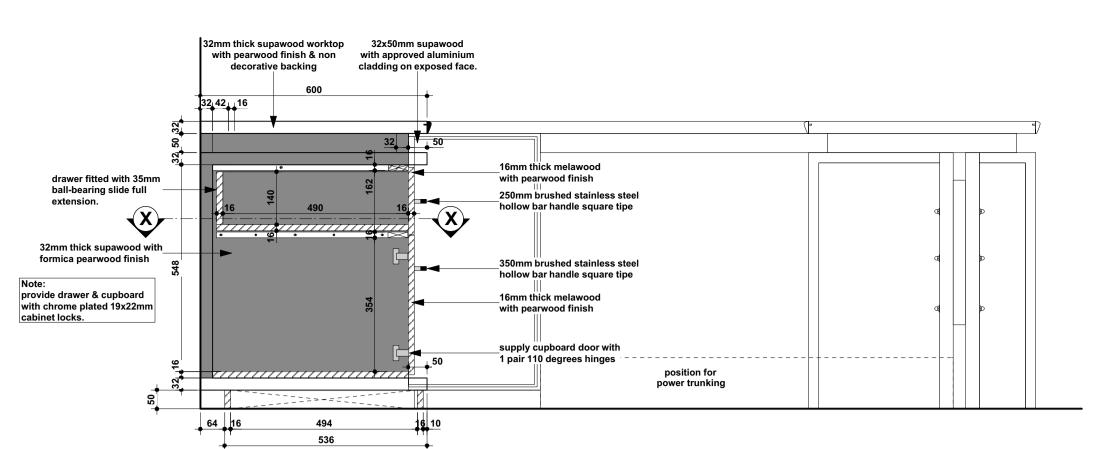
WORKSTATION - VIEW 4

SCALE 1:10



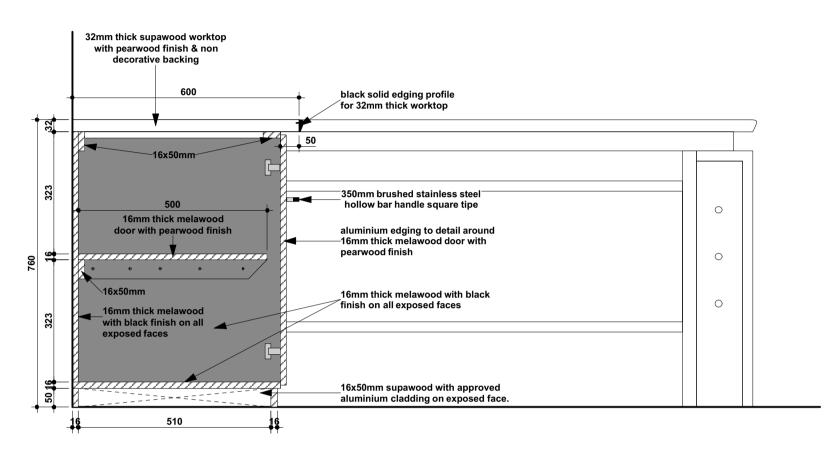
SECTION X - X SCALE 1:10





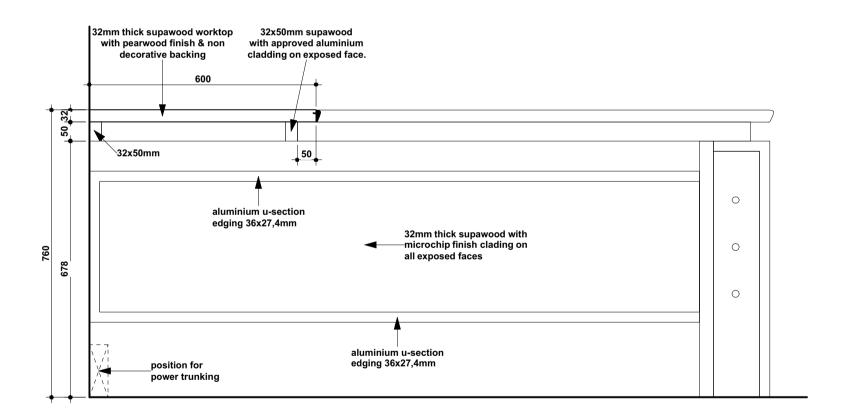
SECTION B - B

SCALE 1:10



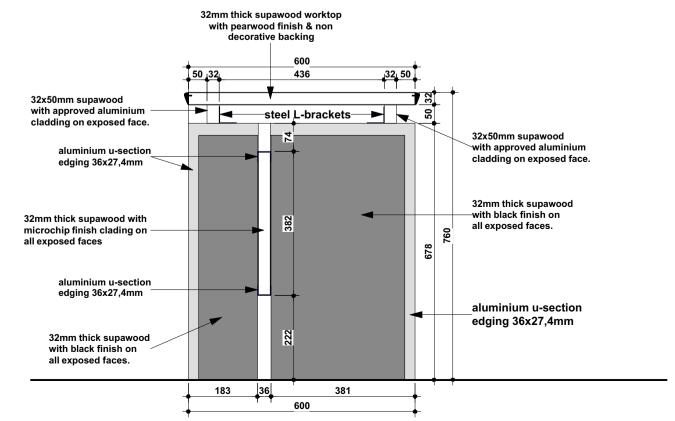
SECTION C - C

SCALE 1:10



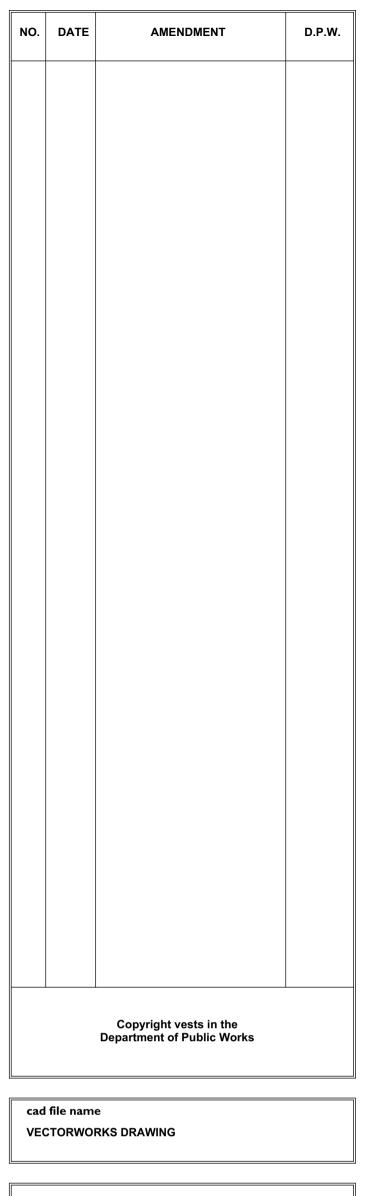
SECTION D - D

SCALE 1:10

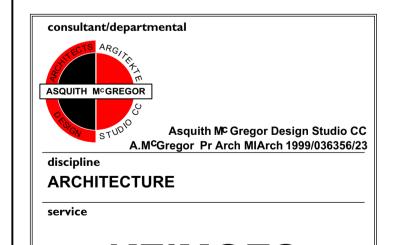


SECTION E - E

SCALE 1:10







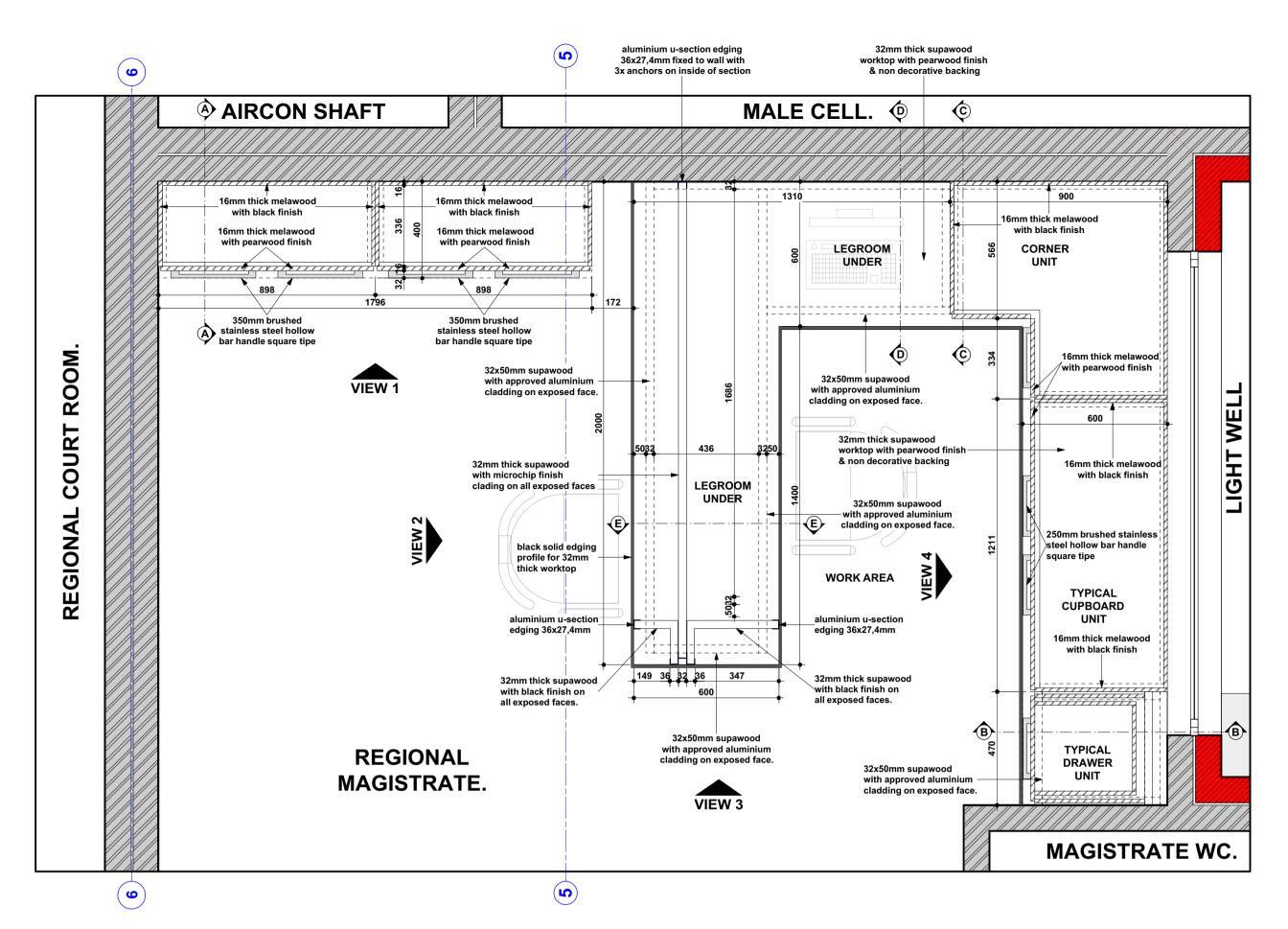
KEIMOES MAGISTRATE'S OFFICE

WCS number 046641

DISTRICT MAGISTRATE **WORKSTATION DETAILS, SECTIONS & ELEVATIONS GROUND FLOOR**

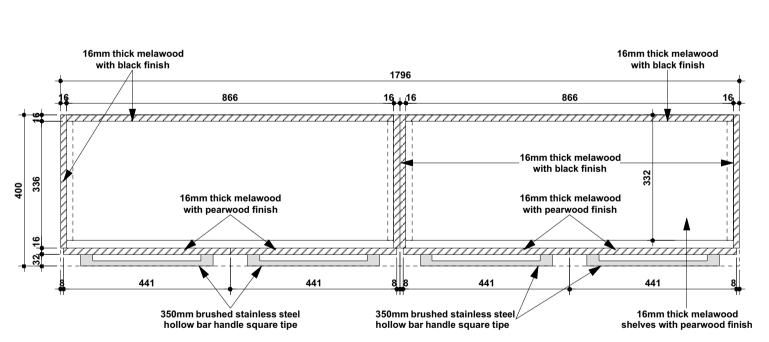
19/2/4/2/2/2324/7 A. MCGREGOR A. MCGREGOR 1:10 ; 1:1<u>5</u> A. MCGREGOR

25716-A5037-00

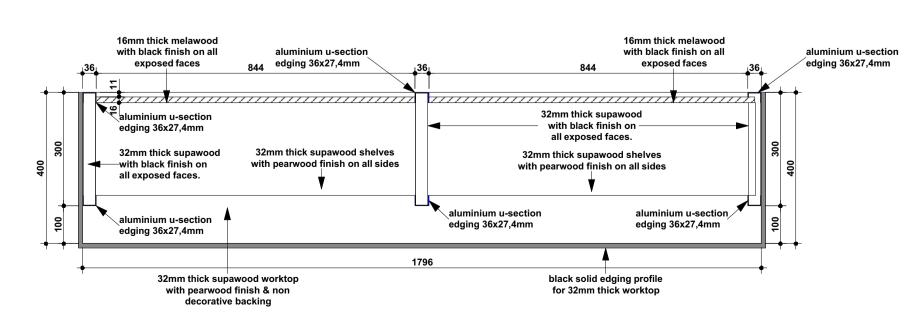


WORKSTATION LAYOUT - REGIONAL MAGISTRATE FIRST FLOOR

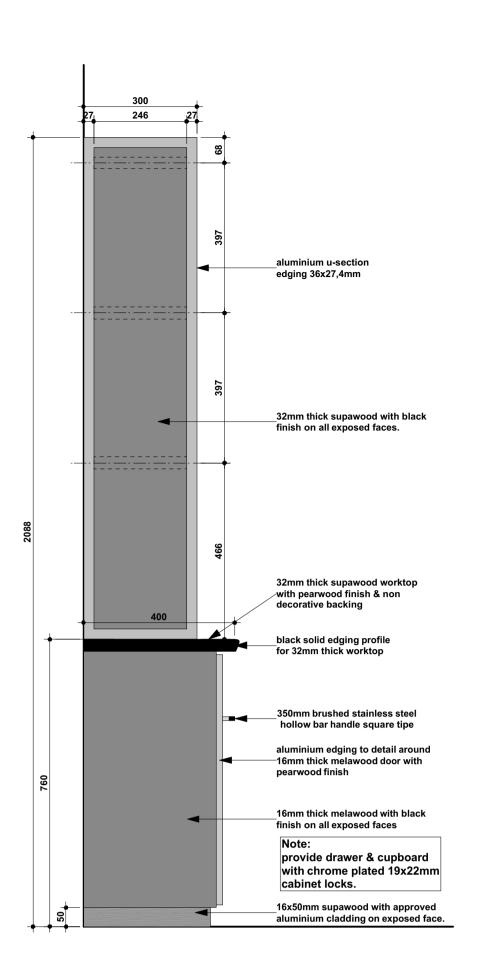
SCALE 1:15



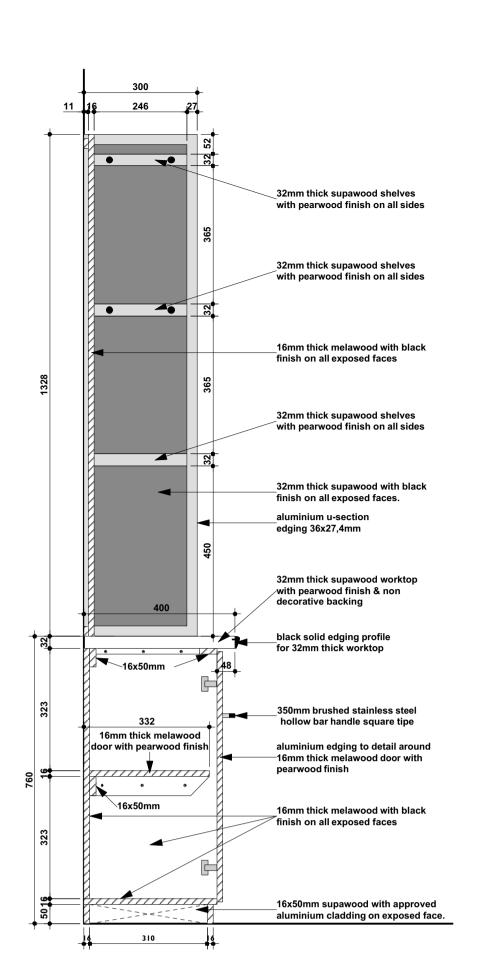
PLAN - WALL UNIT CUPBOARD SCALE 1:10



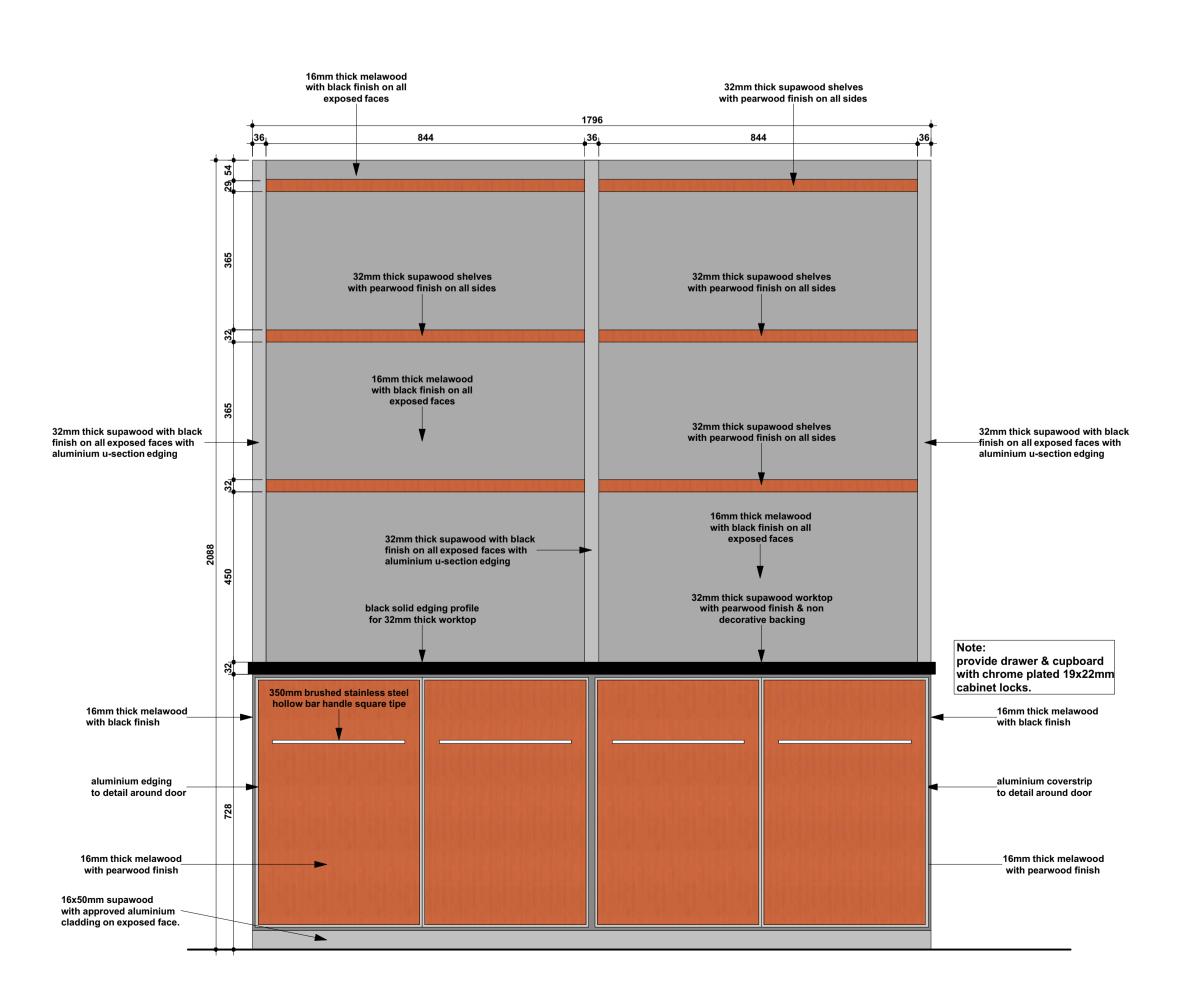
PLAN - WALL UNIT SCALE 1:10



WALL UNIT - SIDE VIEW SCALE 1:10

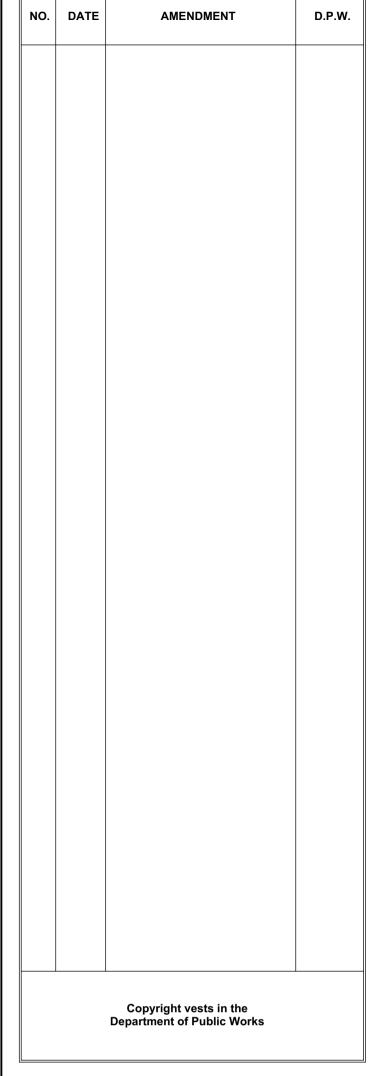


SECTION A - A SCALE 1:10



WALL UNIT - VIEW 1

SCALE 1:10



cad file name **VECTORWORKS DRAWING**

consultant/departmental

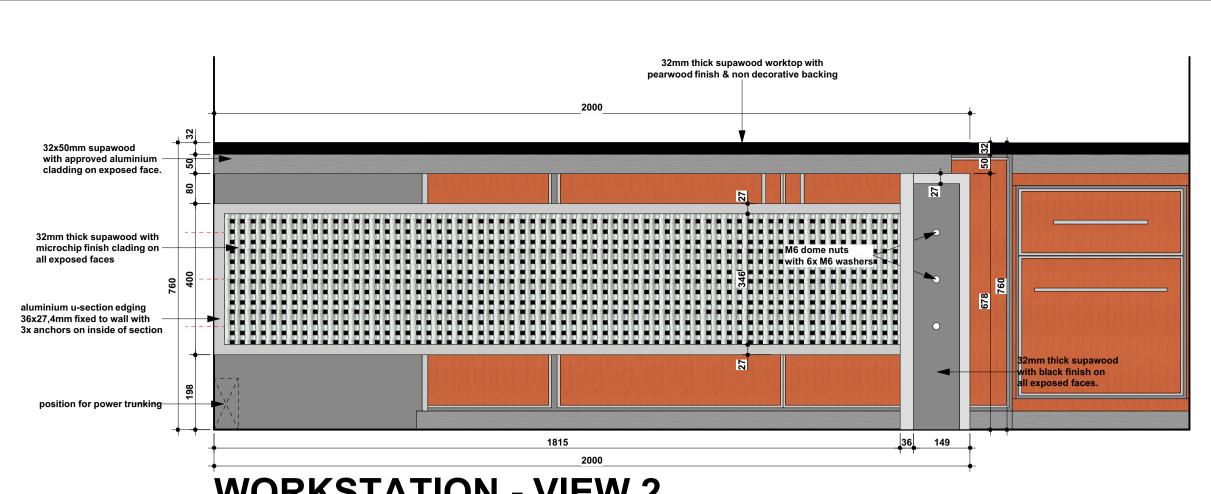




WCS number 046641

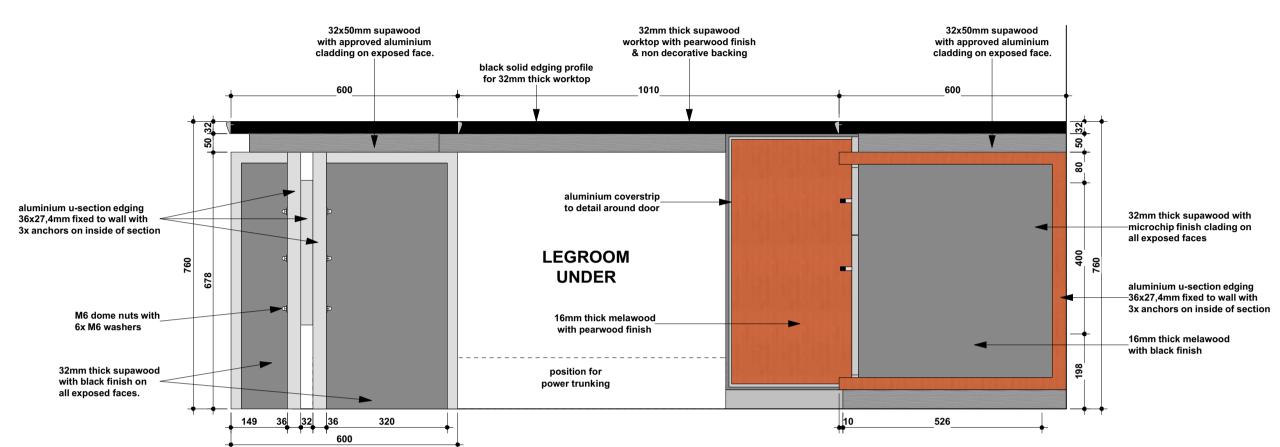
REGIONAL MAGISTRATE WALL UNIT DETAILS, **SECTIONS & ELEVATIONS**

FIRST FLOOR 19/2/4/2/2/2324/7 A. MCGREGOR C. RICHTER 1:10 ; 1:15 A. MCGREGOR 25716-A5038-00



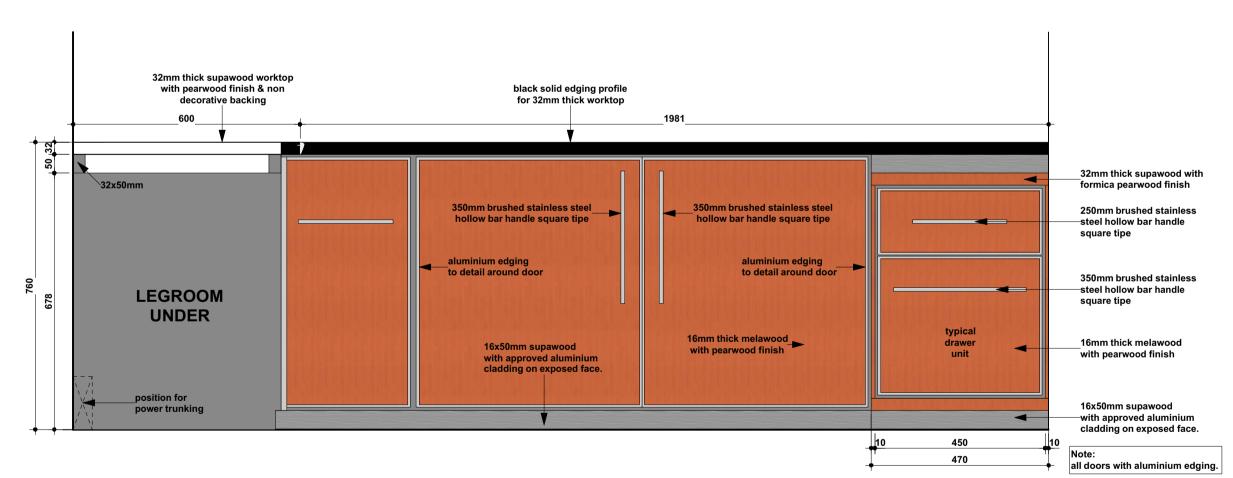
WORKSTATION - VIEW 2

SCALE 1:10



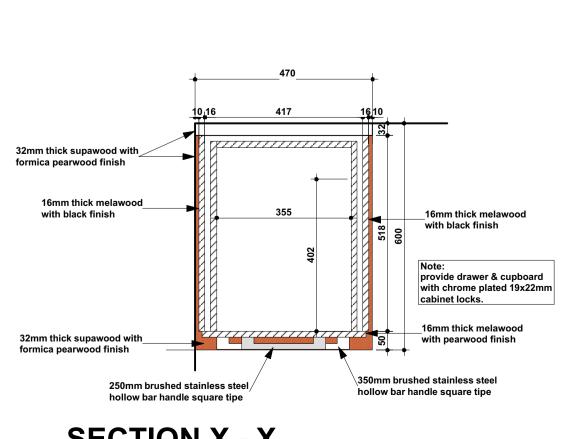
WORKSTATION - VIEW 3

SCALE 1:10

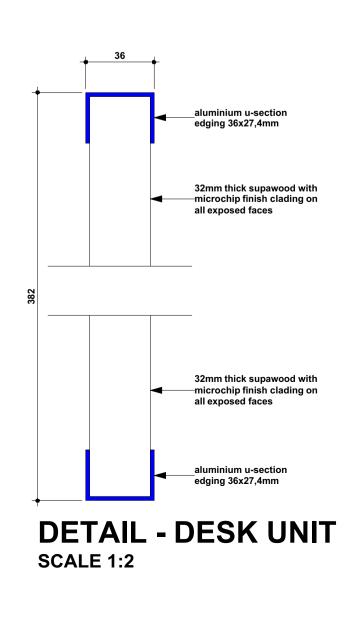


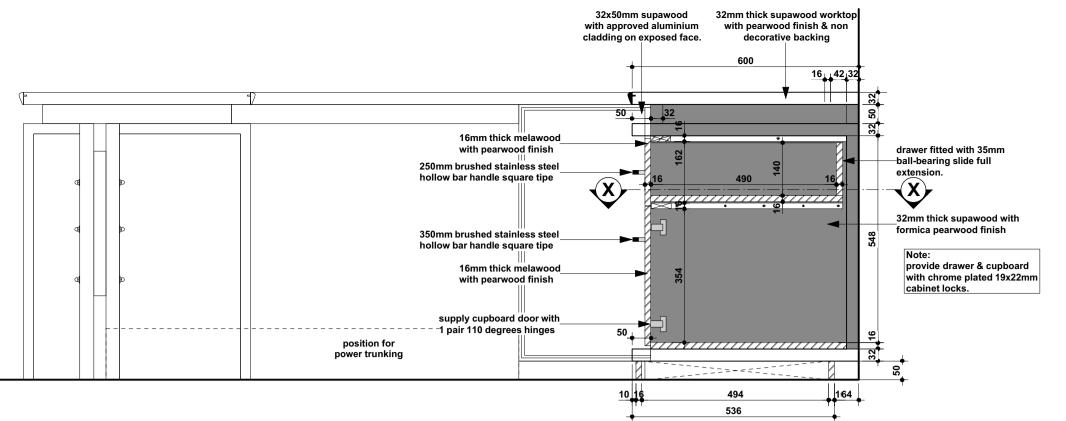
WORKSTATION - VIEW 4

SCALE 1:10



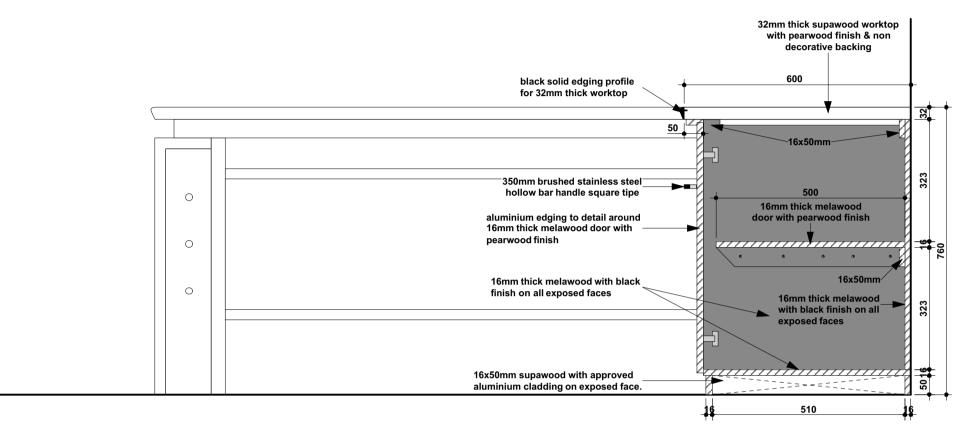
SECTION X - X SCALE 1:10





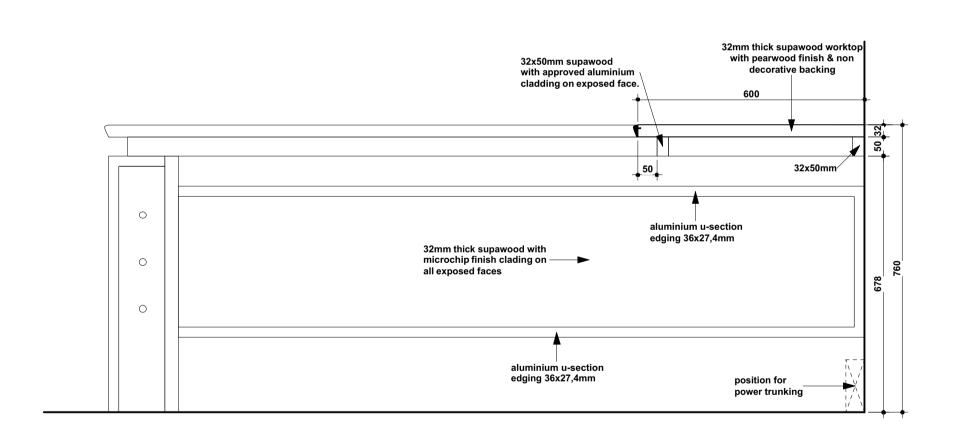
SECTION B - B

SCALE 1:10



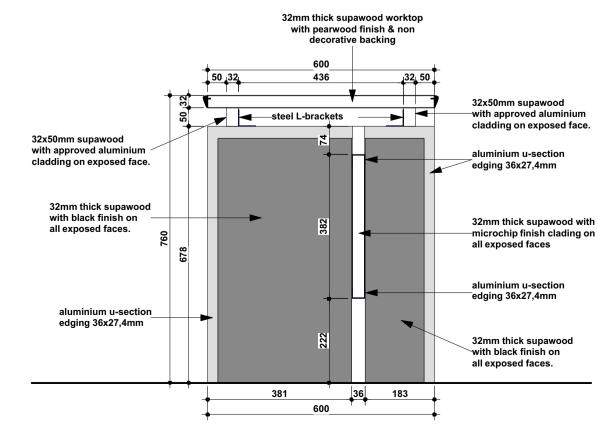
SECTION C - C

SCALE 1:10



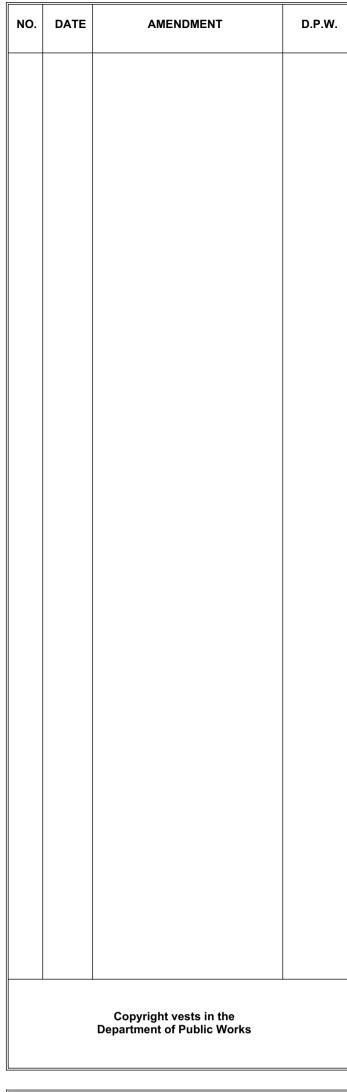
SECTION D - D

SCALE 1:10



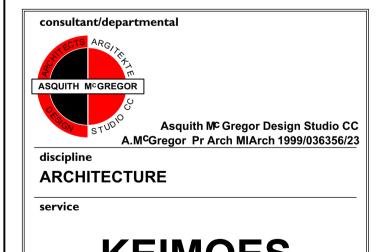
SECTION E - E

SCALE 1:10



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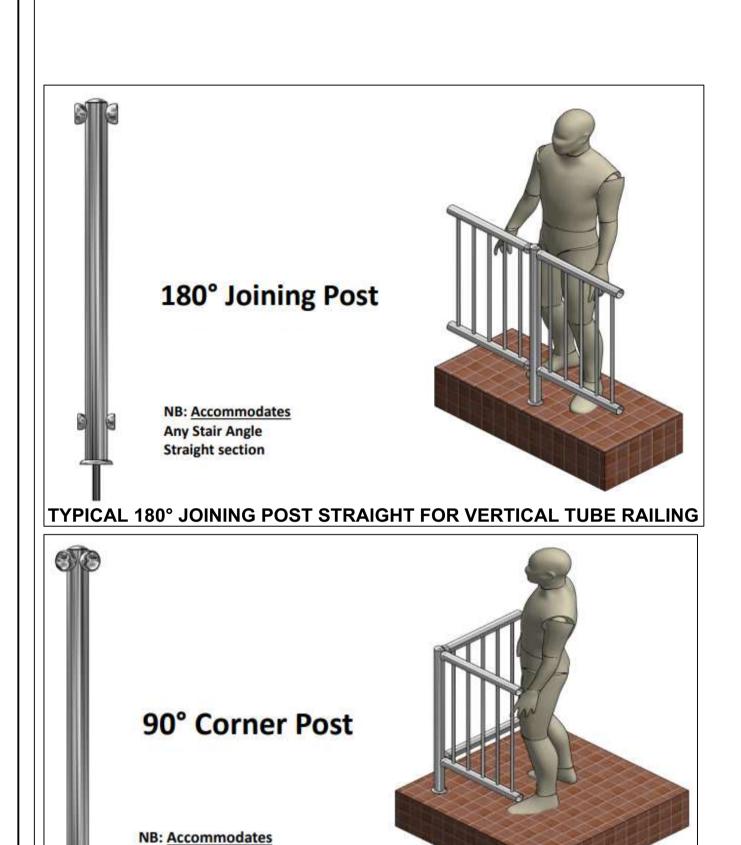
KEIMOES MAGISTRATE'S OFFICE

WCS number 046641

REGIONAL MAGISTRATE **WORKSTATION DETAILS, SECTIONS & ELEVATIONS**

FIRST FLOOR 19/2/4/2/2/2324/7 A. MCGREGOR C. RICHTER 1:10 ; 1:15 A. MCGREGOR 25716-A5039-00

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Vertical Tube Balustrade System Specifications:

Stainless steel vertical tube in-fills - 19.1mm spaced @ 100mm c/c max.

Stainless steel tube main posts with - 38.1mm - standard 1000mm post heights.

Vertical In-fill sections to be devided into equal spaces between main posts not

- Plant your ready-made posts into pre-drilled hole. Fix into place with epoxy.

All main posts to be fixed with epoxy as per manufacturers specifications.

- Once in place and planted, cut the top rail to size by cutting by hand,

- There is no welding, mitring, nor expensive joints needed. - Simply twist the tube infill to suit the stair angle you require.

Post kits supplied complete made 2 order with post mounting options with base cover,

fit the top rail into the post sleeve by inserting the easy fix method. Secure to the post.

All sections to be round and off Stainless Steel Grade 316.

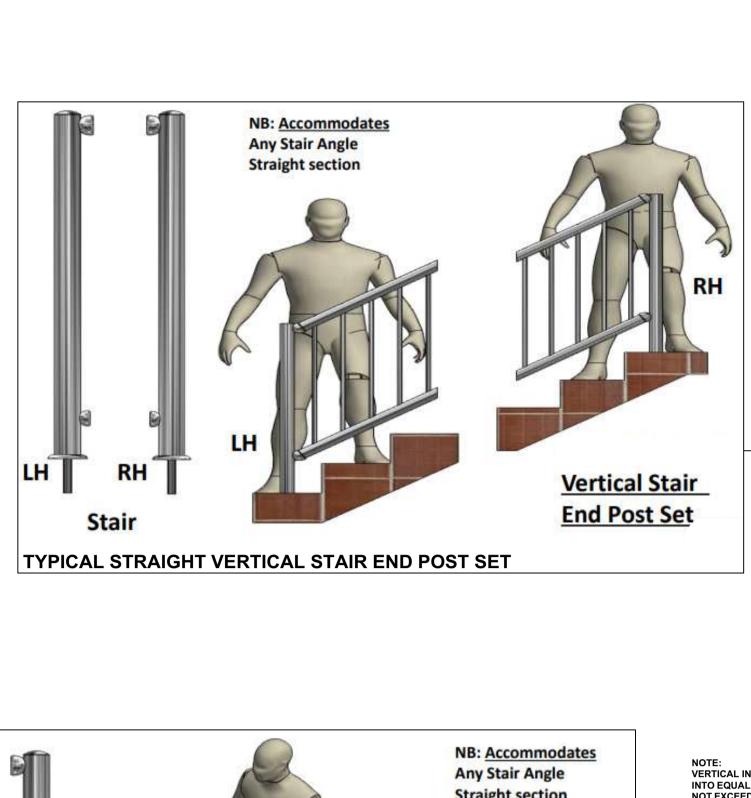
Stainless steel tube top rail - 50.8mm,

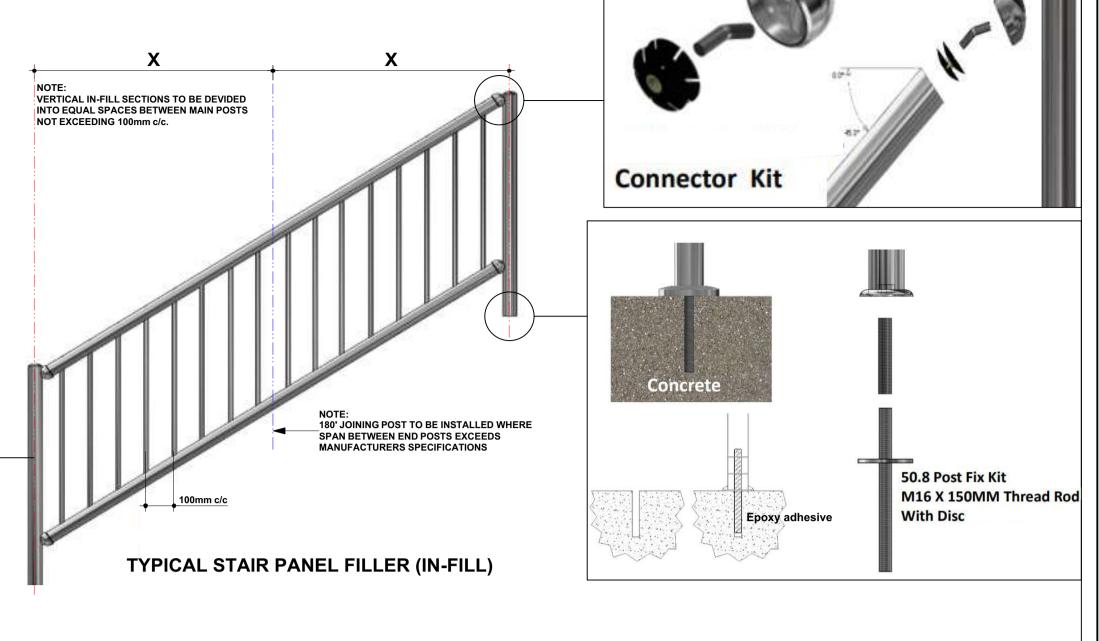
for easy site assembly.

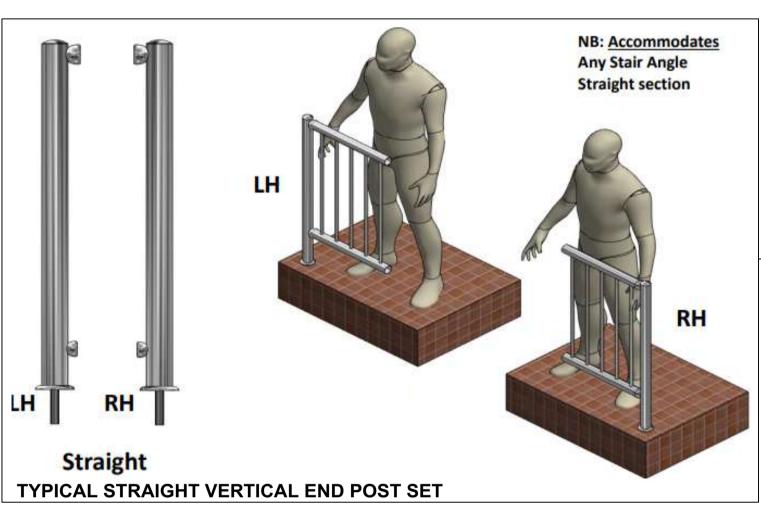
exceeding 100mm c/c.

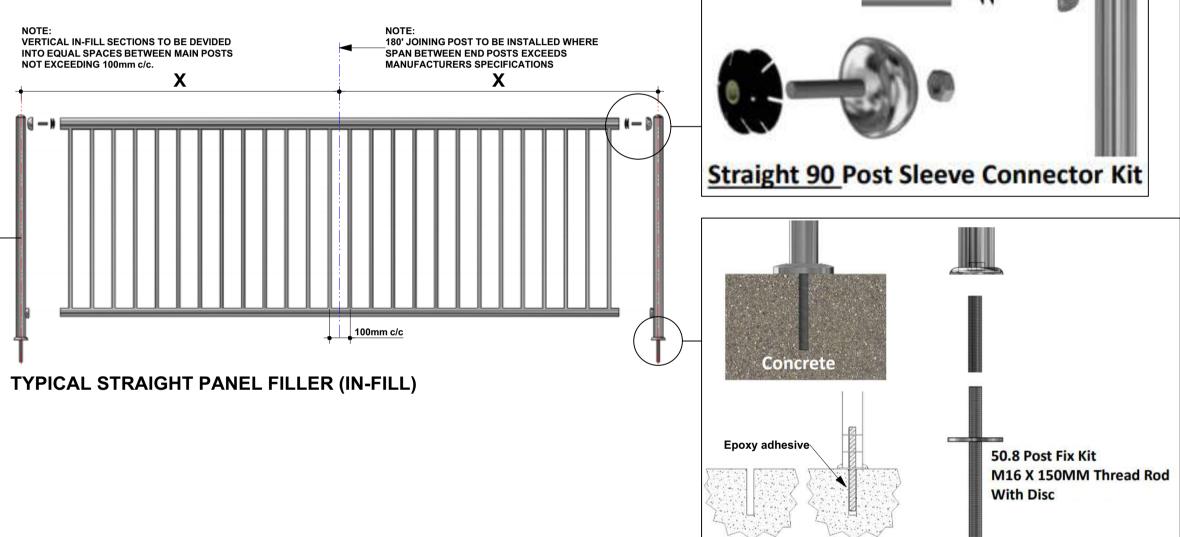
Stainless steel tube bottom rail - 38.1mm

A Typical Rundown Of Assembly:





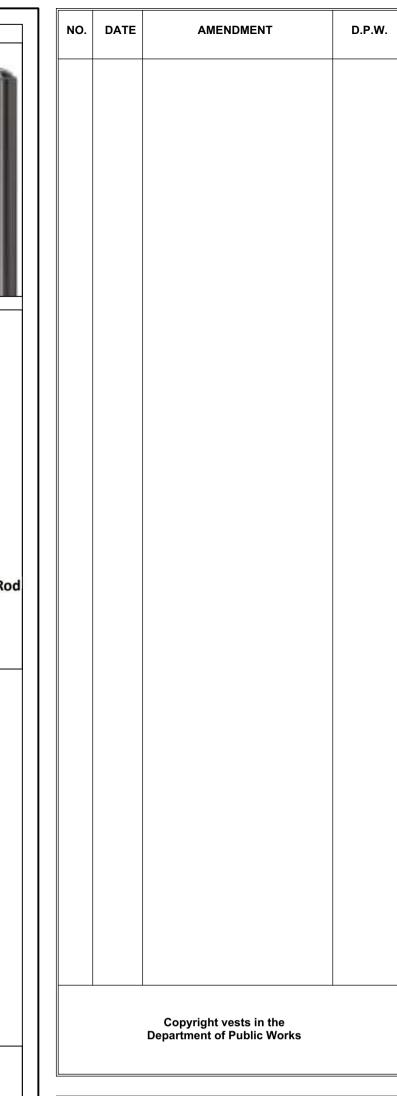




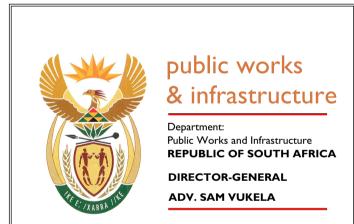
TYPICAL FIXING OF TOP RAIL TO SIDE WALL BRACKET

1000mm C/C

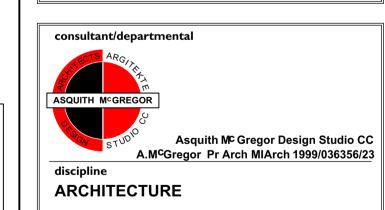
SIDE WALL MOUNTED HANDRAIL SYSTEM



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KEIMOES MAGISTRATE'S OFFICE

WCS number 046641

TYPICAL STAINLESS STEEL HANDRAIL & BALUSTRADE DETAIL

19/2/4/2/2/2324/7 A. MCGREGOR A. MCGREGOR A. MCGREGOR

25716-A6004-00

Side Wall Mounted Handrail System Specifications:

All sections to be round and off Stainless Steel Grade 316.

Wall Mounted Handrail comprises of a 50.8mm rail with side wall brackets and end caps as standard, to be supplied complete with rail, brackets, end caps factory attached fittings, for easy assembly.

Handrail Specifications:

Handrail - Dia 50.8mm Round Side Mount Ready-made Wall brackets every 1m spacing as per manufacturers specification.

TYPICAL 90° CORNER POST FOR VERTICAL TUBE RAILING

A typical rundown of assembly: - Plant your ready-made side wall brackets into pre-drilled hole. Fix into place with epoxy.

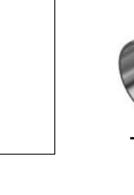
Any Stair Angle

Straight section

- Once in place and planted, cut the top rail to size by cutting by hand. - Secure top rail with screws onto side wall bracket as per manufacturers specification.

- Fit end caps to finished top rail as per manufacturers specification.

- There is no welding, mitring, nor expensive joints needed.



Top Rail Ø50.8 Tube

TYPICAL WALL MOUNTED HANDRAIL TOP RAIL



End Cap

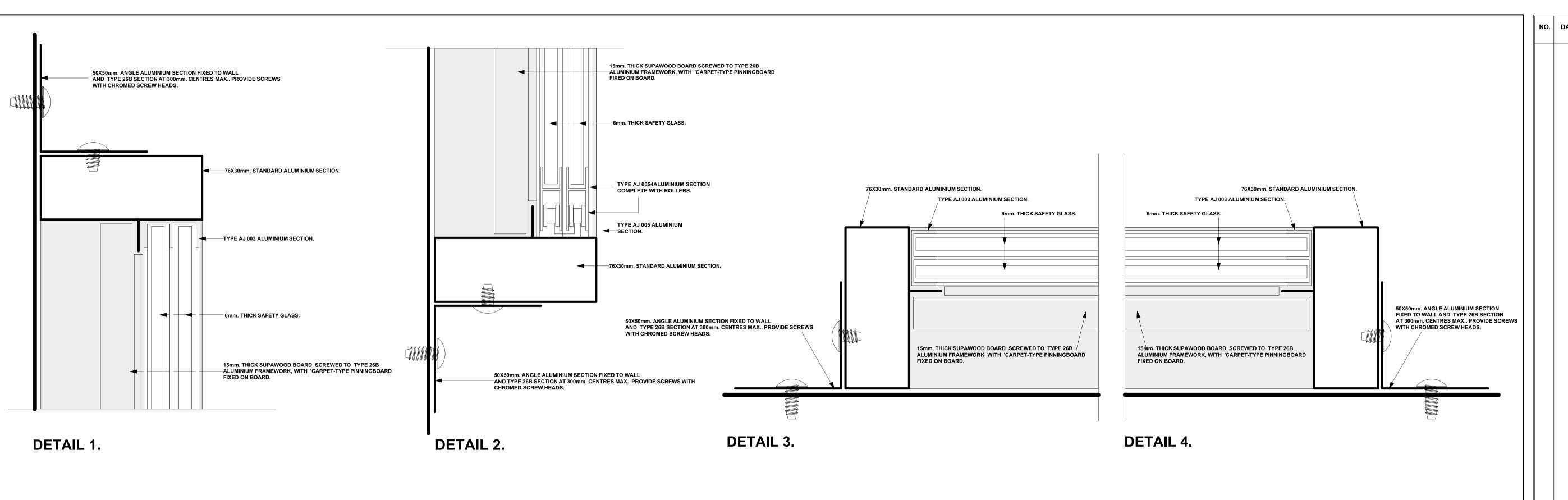
TYPICAL WALL MOUNTED HANDRAIL END CAP

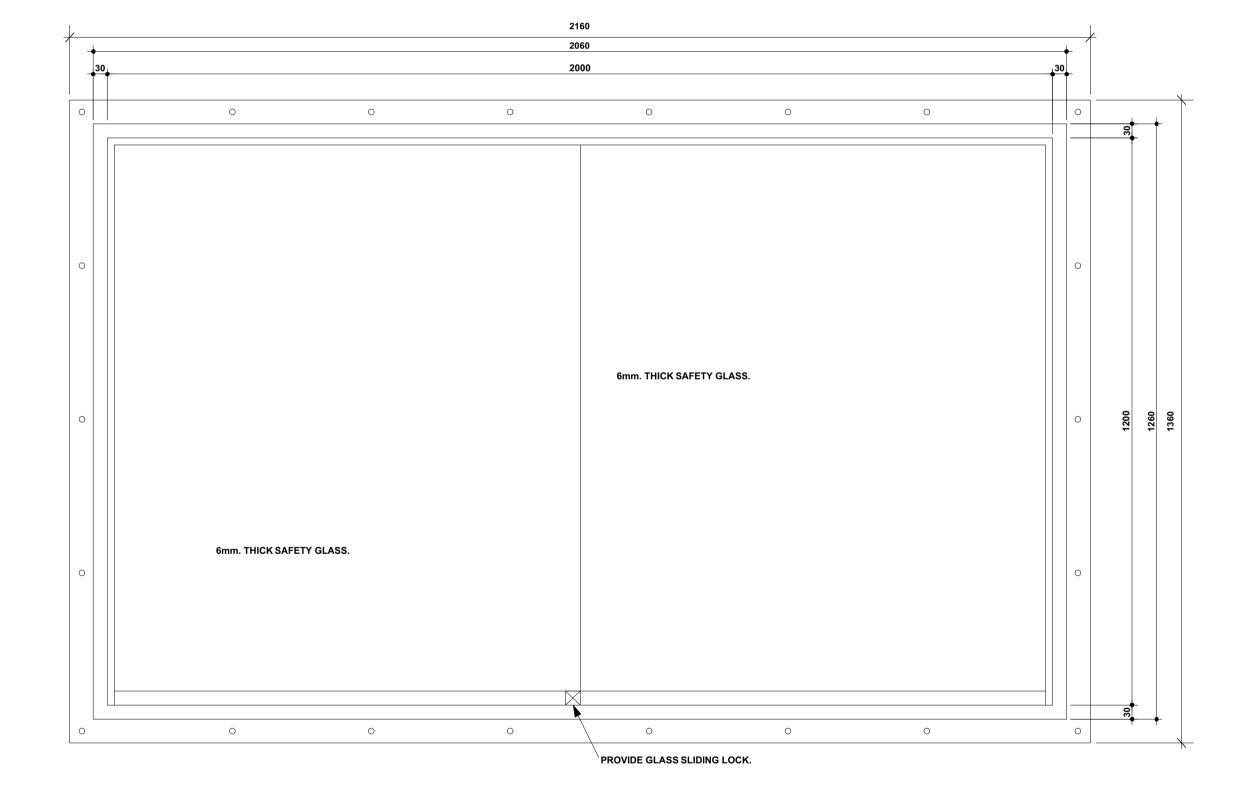


Side Wall Bracket

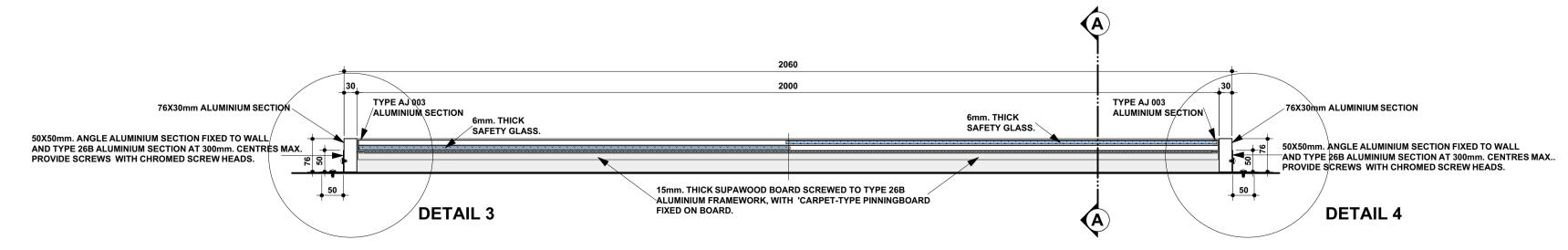


TYPICAL WALL MOUNTED HANDRAIL SIDE WALL BRACKET

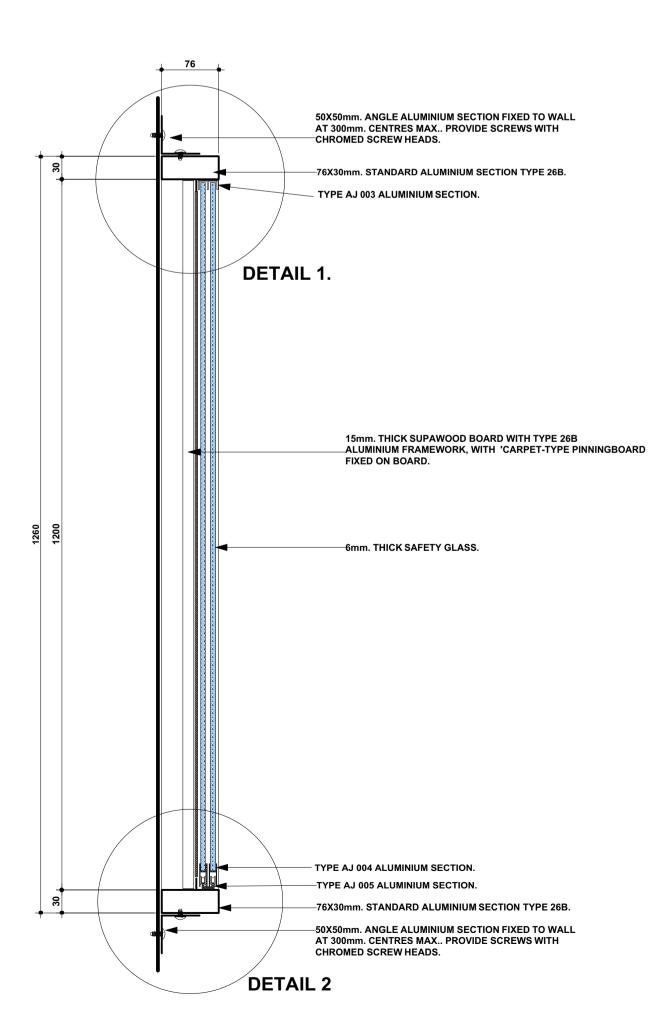




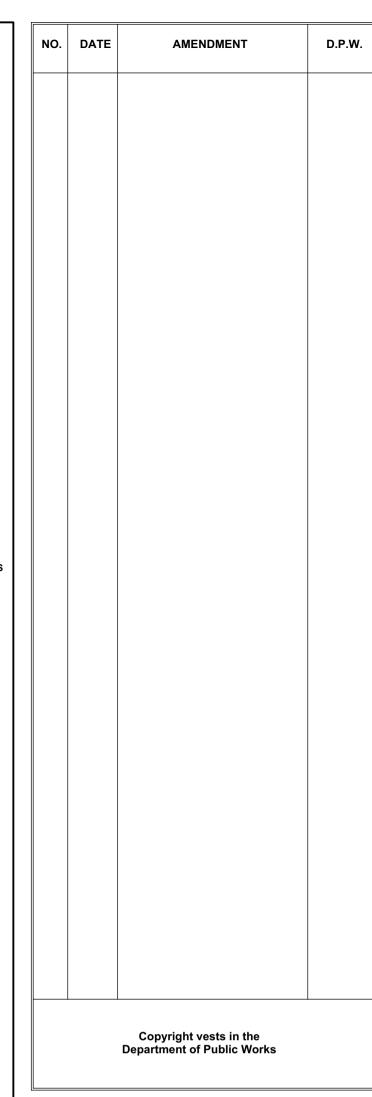
ELEVATION - NOTICE BOARD



PLAN - NOTICE BOARD



TYPICAL SECTION A-A



cad file name

VECTORWORKS DRAWING

consultant/departmental

WCS number



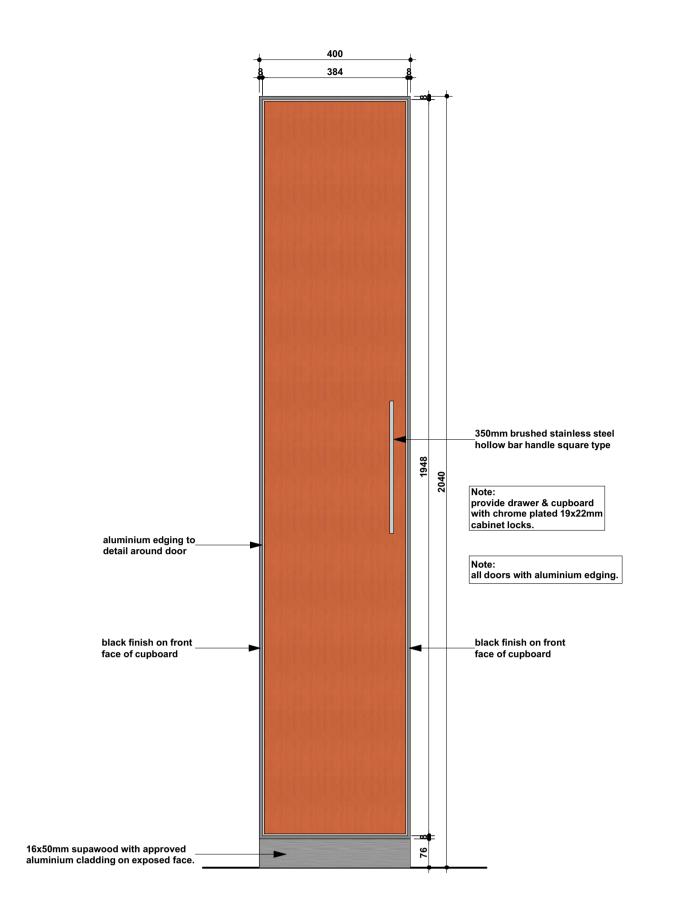


046641 **NOTICE BOARD ELEVATIONS, SECTIONS**

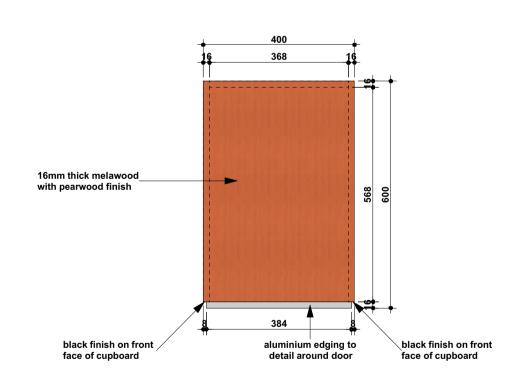
& DETAILS 19/2/4/2/2/2324/7 A. MCGREGOR C. RICHTER A. MCGREGOR

25716-A6015-00

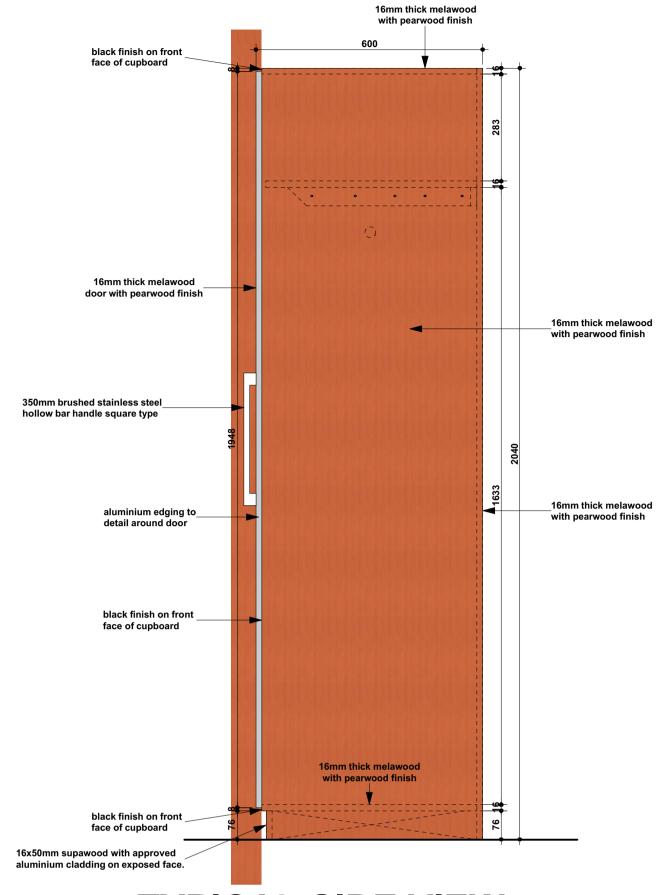
Volume 4 Page 18



TYPICAL FRONT VIEW SCALE 1:10



PLAN VIEW
SCALE 1:10



TYPICAL SIDE VIEW
SCALE 1:10

NOTE:
ALL MEASUREMENTS TO BE CHECKED ON SITE

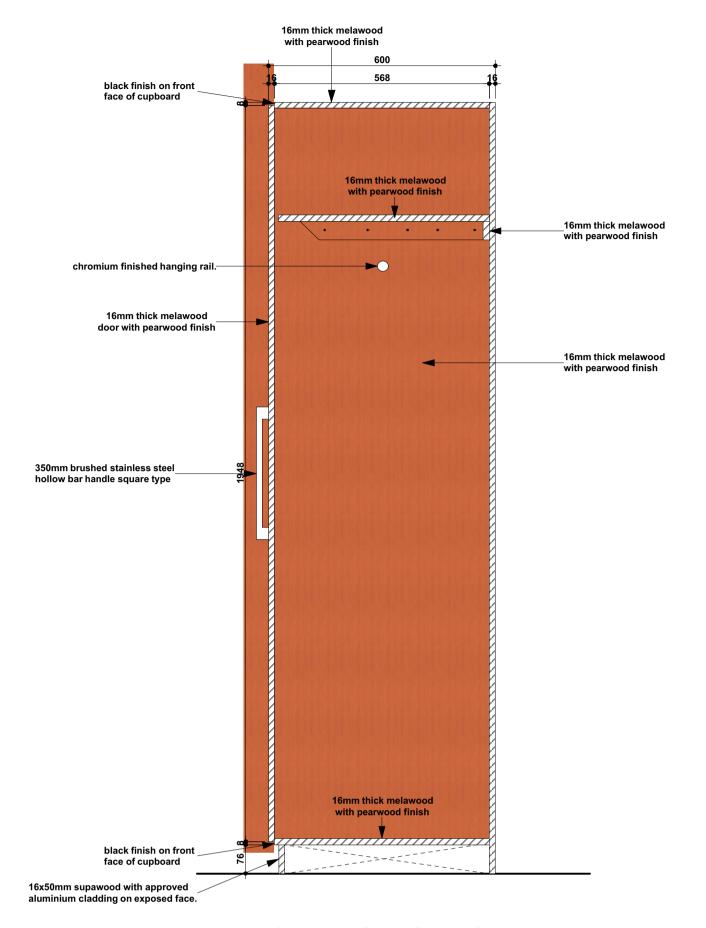
NOTE:
CUPBOARD DOORS PROVIDED WITH APPOVED HANDLES.
CUPBOARDS PROVIDED WITH APPROVED HINGES AND LOCKSETS.

DRAWERS PROVIDED WITH APPOVED HANDLES.
DRAWERS PROVIDED WITH APPROVED SLIDING MECHANISM.

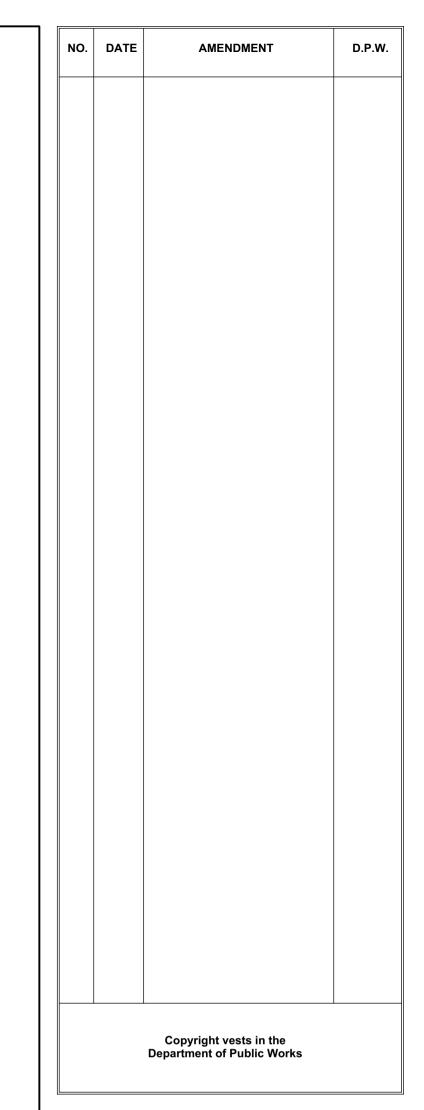
BEFORE MANUFACTURING OF ANY CUPBOARDS

CUPBOARDS FOR TOGAS.

(TOTAL = xx CUPBOARDS)



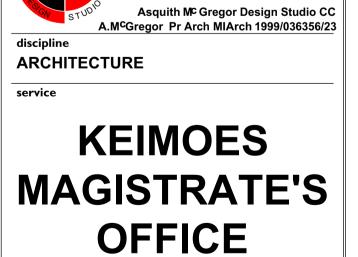
TYPICAL SECTION SCALE 1:10



cad file name
VECTORWORKS DRAWING

consultant/departmental





O46641

drawing title

TOGA CUPBOARD
TYPICAL ELEVATIONS &
SECTIONS

ret.no
designed

19/2/4/2/2/2324/7

scale

1:10
date
AUG. 2019

A. MCGREGOR
drawn

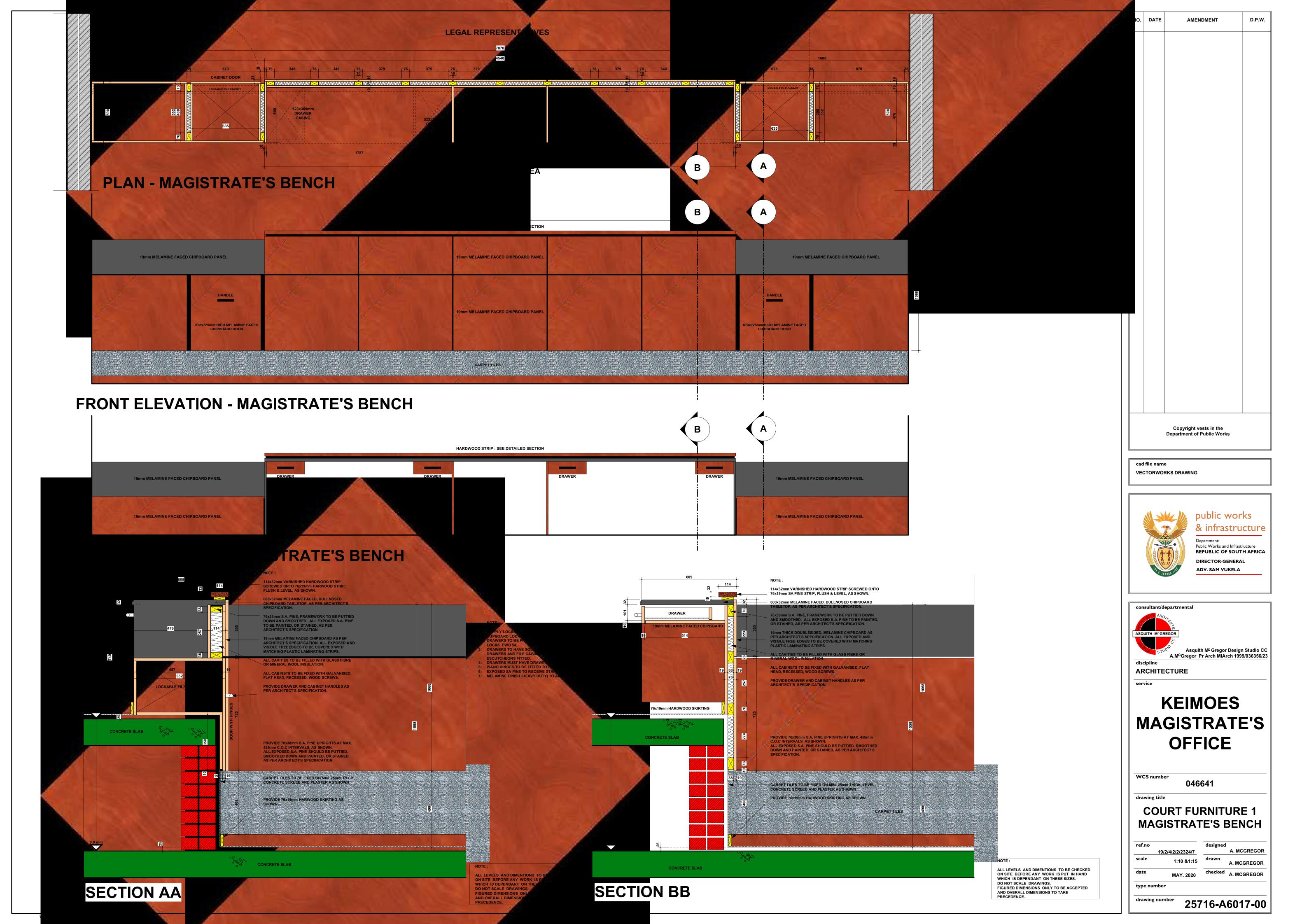
C. RICHTER
checked

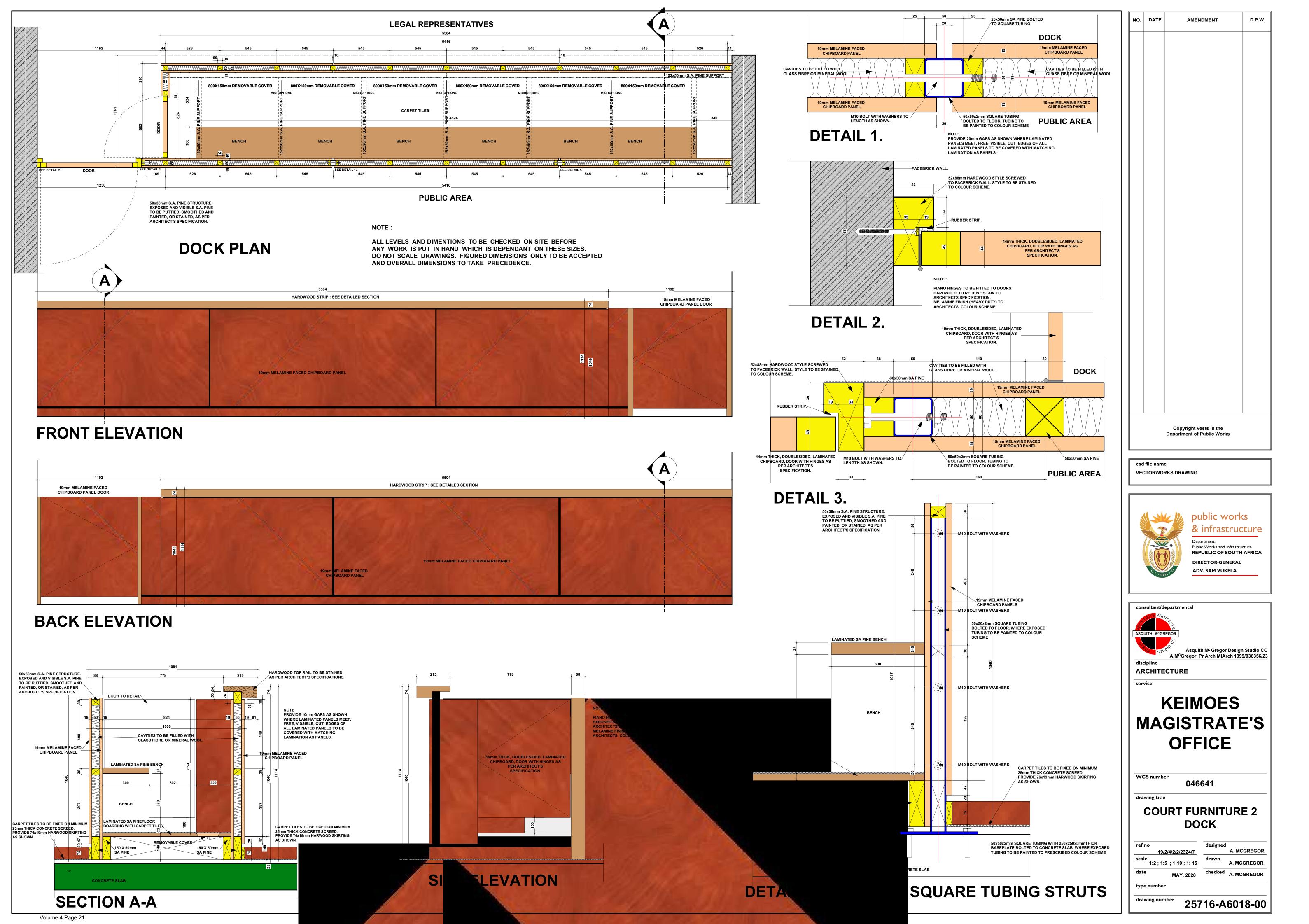
AUG. 2019

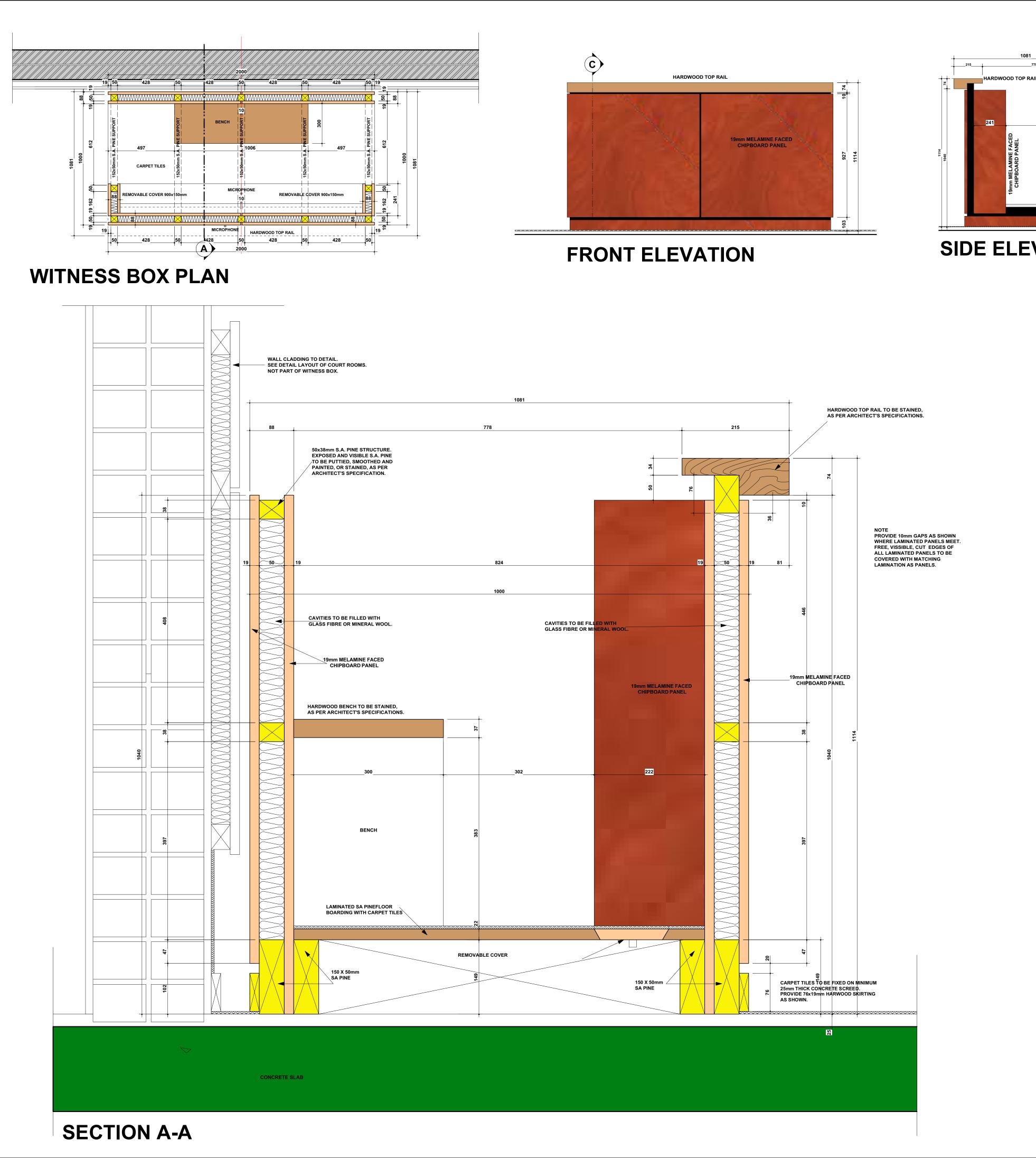
A. MCGREGOR

25716-A6016-00

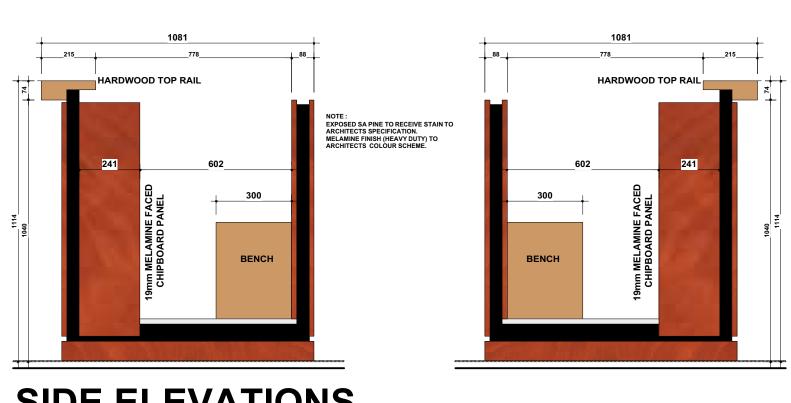
Volume 4 Page 19



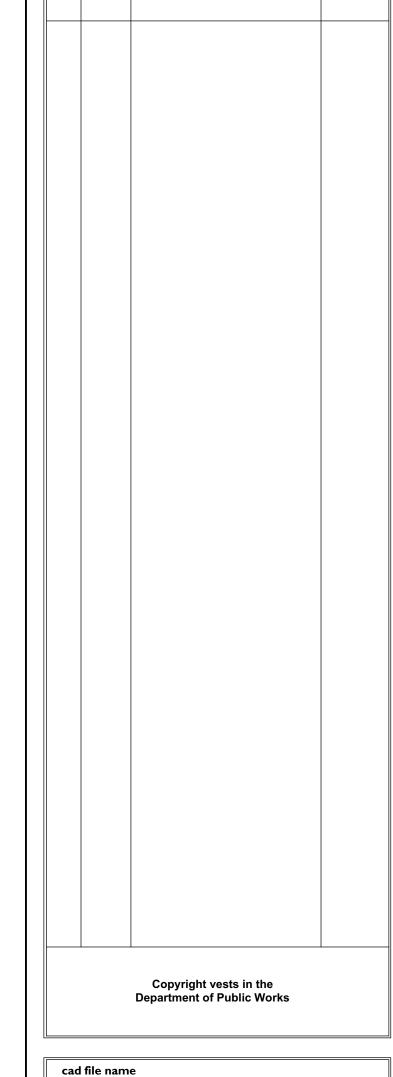




Volume 4 Page 22



SIDE ELEVATIONS

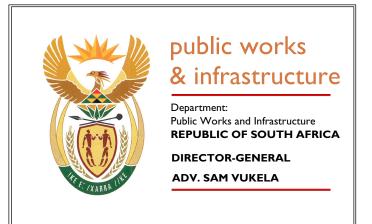


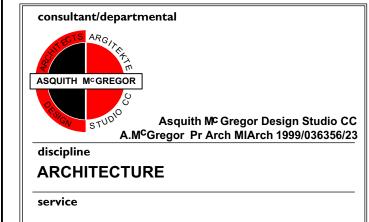
D.P.W.

AMENDMENT

NO. DATE

VECTORWORKS DRAWING





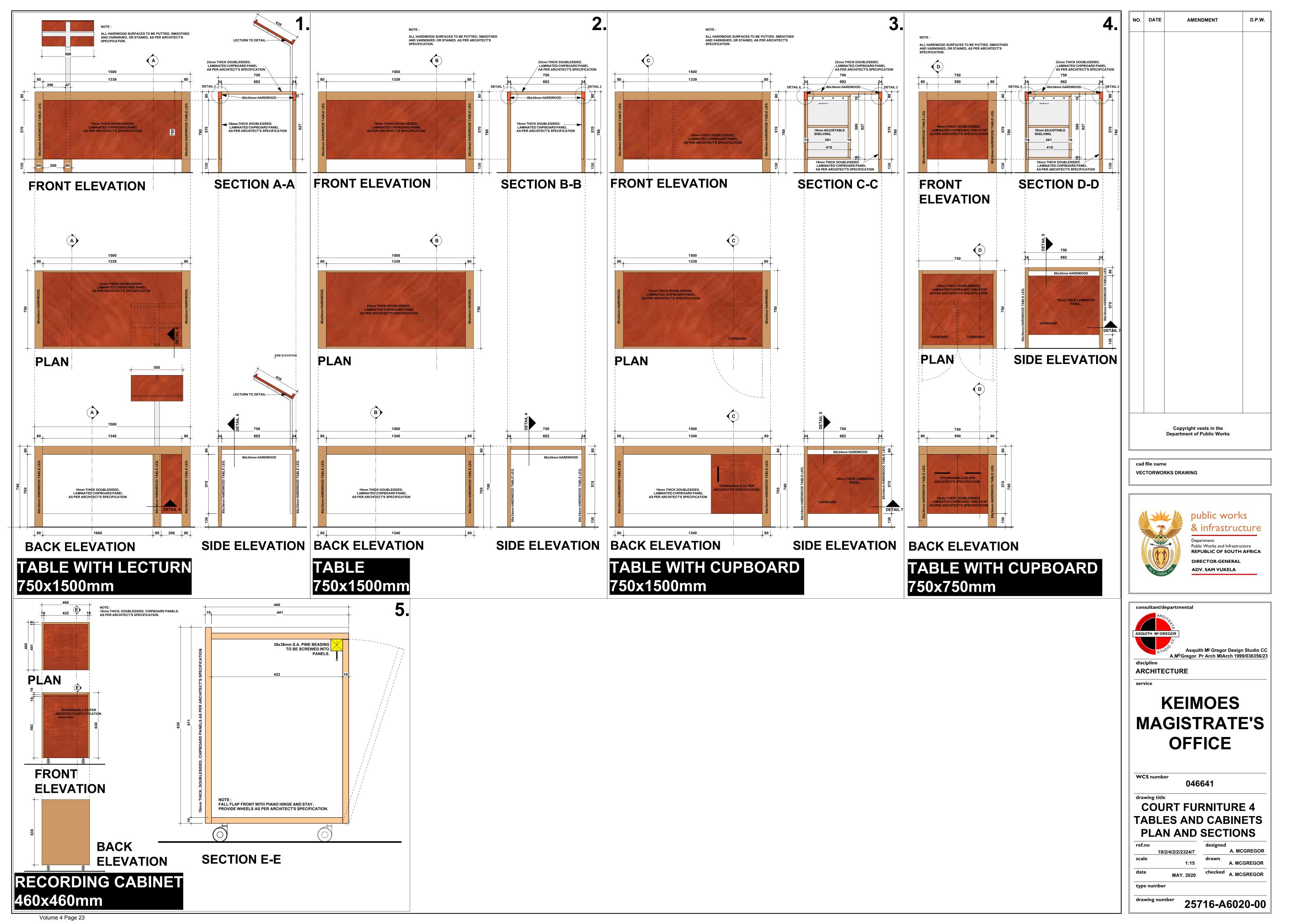
KEIMOES MAGISTRATE'S OFFICE

WCS number 046641

COURT FURNITURE 3 WITNESS BOX

ref.no		designed	
	19/2/4/2/2/2324/7		A. MCGREGOR
scale	1:4 ; 1:15	drawn	A. MCGREGOR
date	MAY. 2020	checked	A. MCGREGOR
type nun	nber		

25716-A6019-00

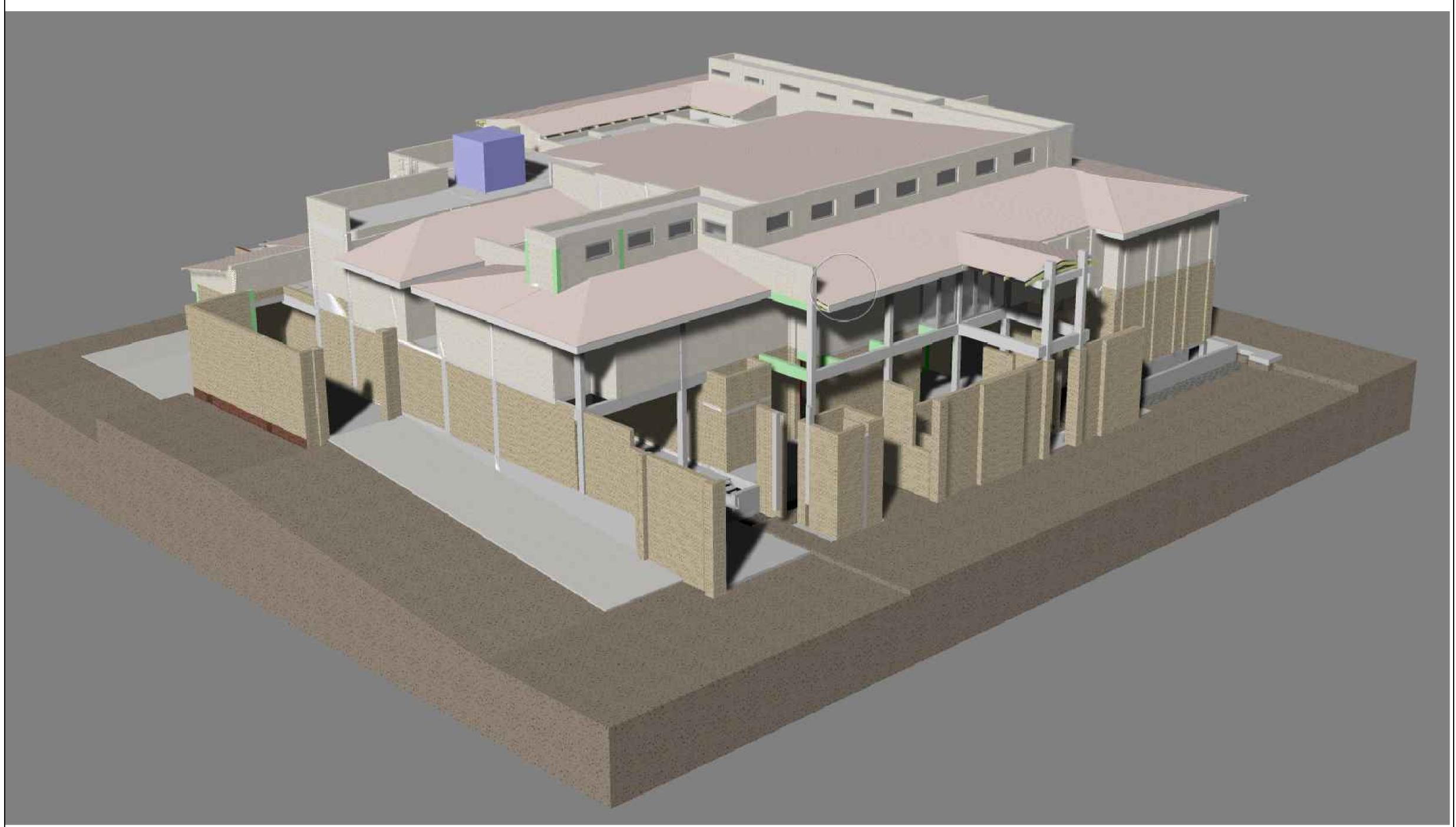


Structural for (KIM03/2023)

Isometric view 1237-S-000-Rev000

Timber roof Layout 1237-S-017 to 1237-S-022

Speed Hump STE/P-31A



ISOMETRIC VIEW

REIMOES

WCS number

O46641

drawing title

ISOMETRIC VIEW

Tef.no

19/2/4/2/2/23247

scale

AS SHOWN

MARCH 2021

E. MAASS

drawn

R. JOHNSON

checked

MARCH 2021

FOR TENDER PURPOSES

REPUBLIC OF SOUTH AFRICA

REPUBLIC OF SOUTH AFRICA

LEMASS

AS SHOWN

MARCH 2021

E. MAASS

drawn

R. JOHNSON

Checked

WARCH 2021

Trawning number

L. MAASS

Type number

1237/S/0000/REV00

AMENDMENT

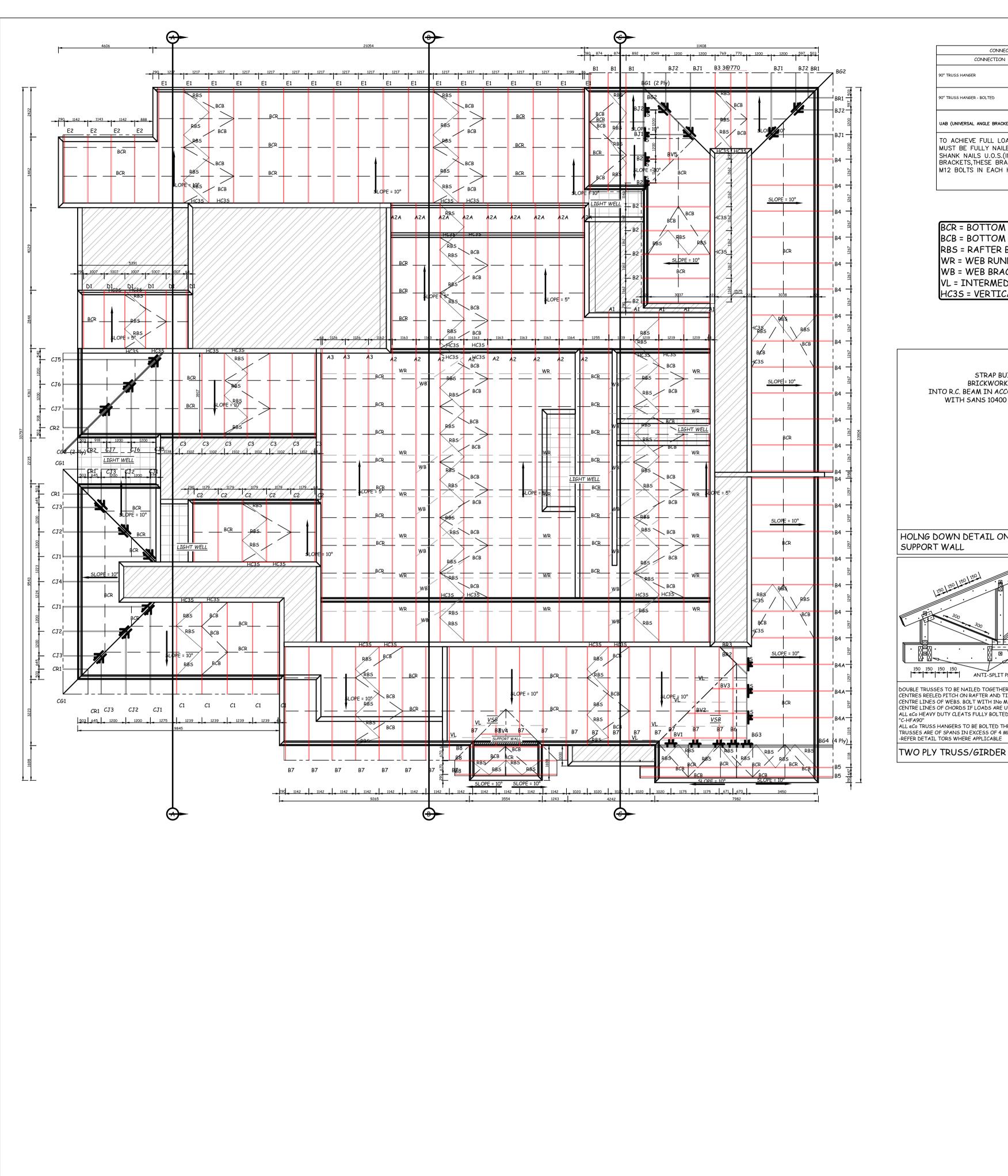
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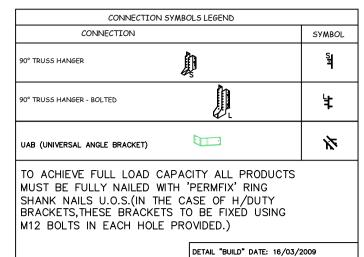
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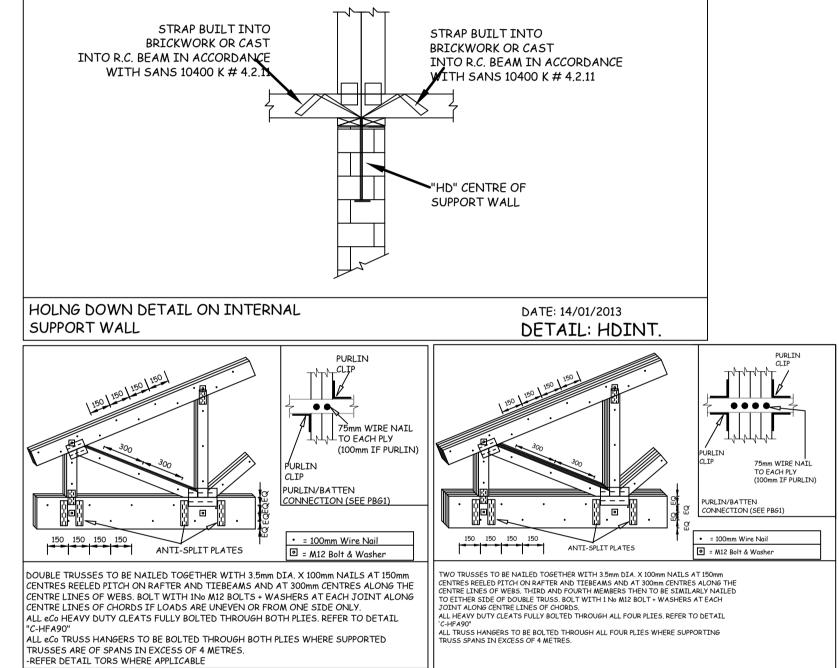
00 21/03/18 FOR TENDER PURPOSES

D.P.W.



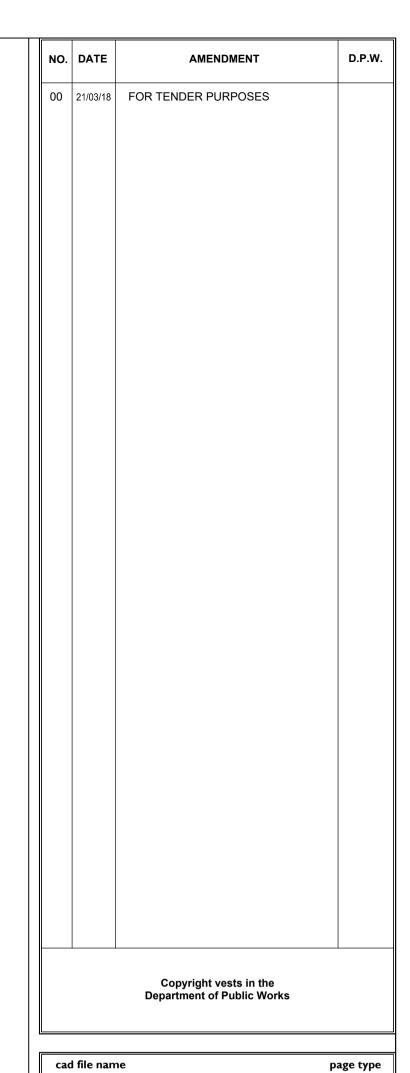


BCR = BOTTOM CHORD RUNNER
BCB = BOTTOM CHORD BRACING
RBS = RAFTER BRACING
WR = WEB RUNNERS
WB = WEB BRACING
VL = INTERMEDIATE VALLEY RUNNERS
HC3S = VERTICAL BRACING



DETAIL - 2PLY

FOUR PLY TRUSS/GIRDER



278320BB0/017 A 1



consultant/departmental

discipline STRUCTURAL E	ENGINEERS
service	
KF	EIMOES
MAGI	ISTRATE'S
	FFICE
	FFICE
WCS number	
	046641
WCS number	

19/2/4/2/2/2324/7

AS SHOWN
MARCH 2021

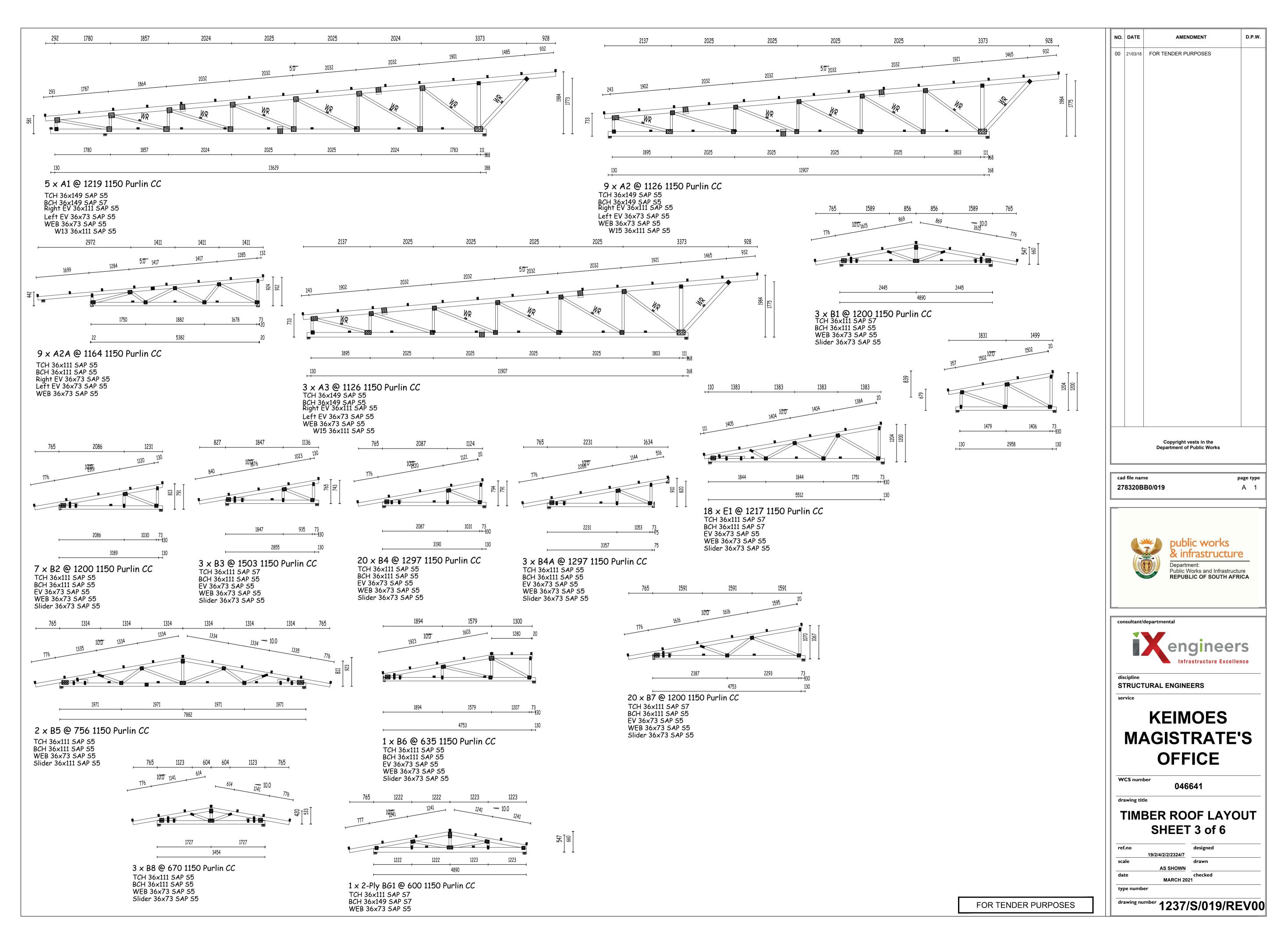
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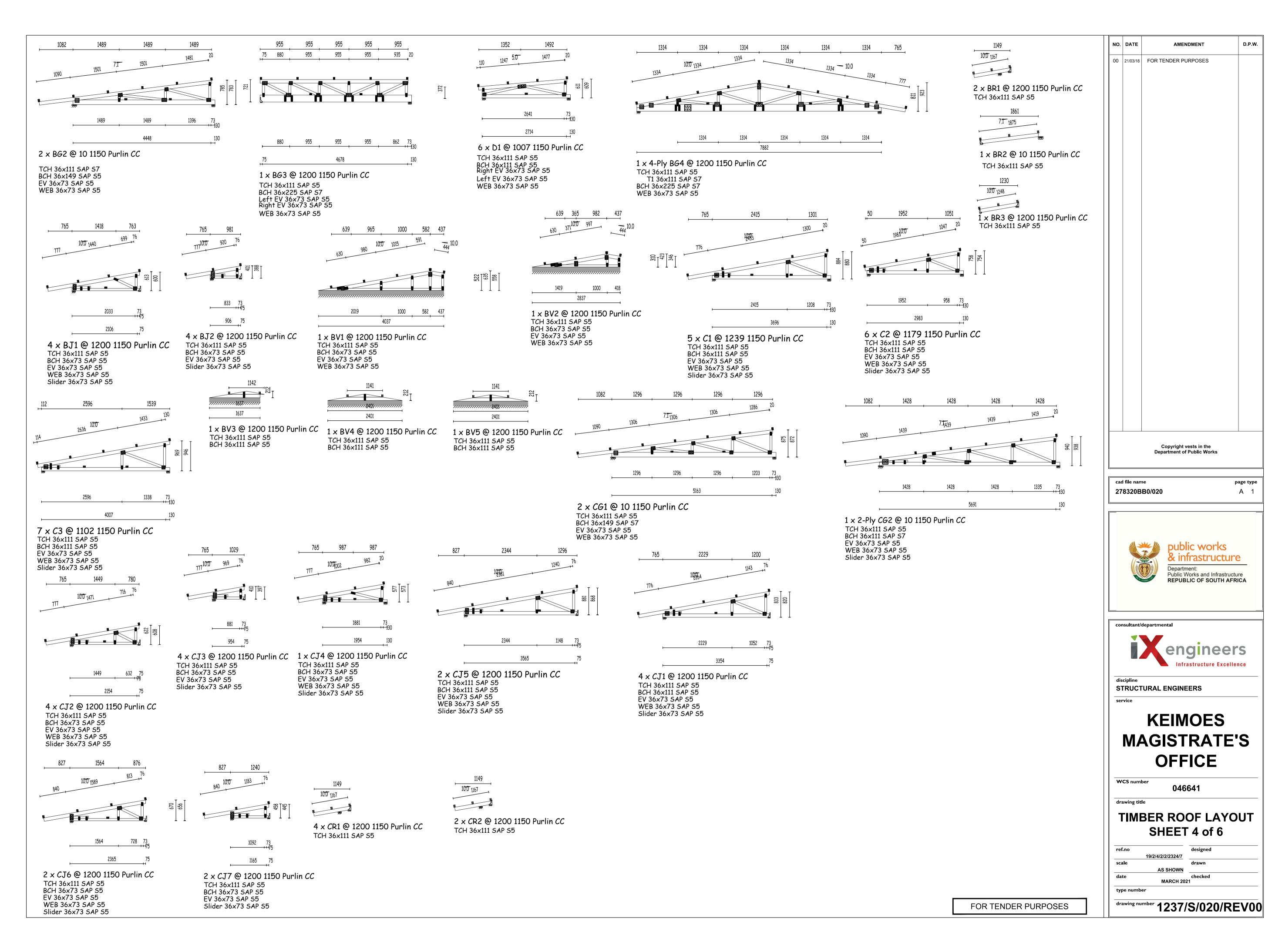
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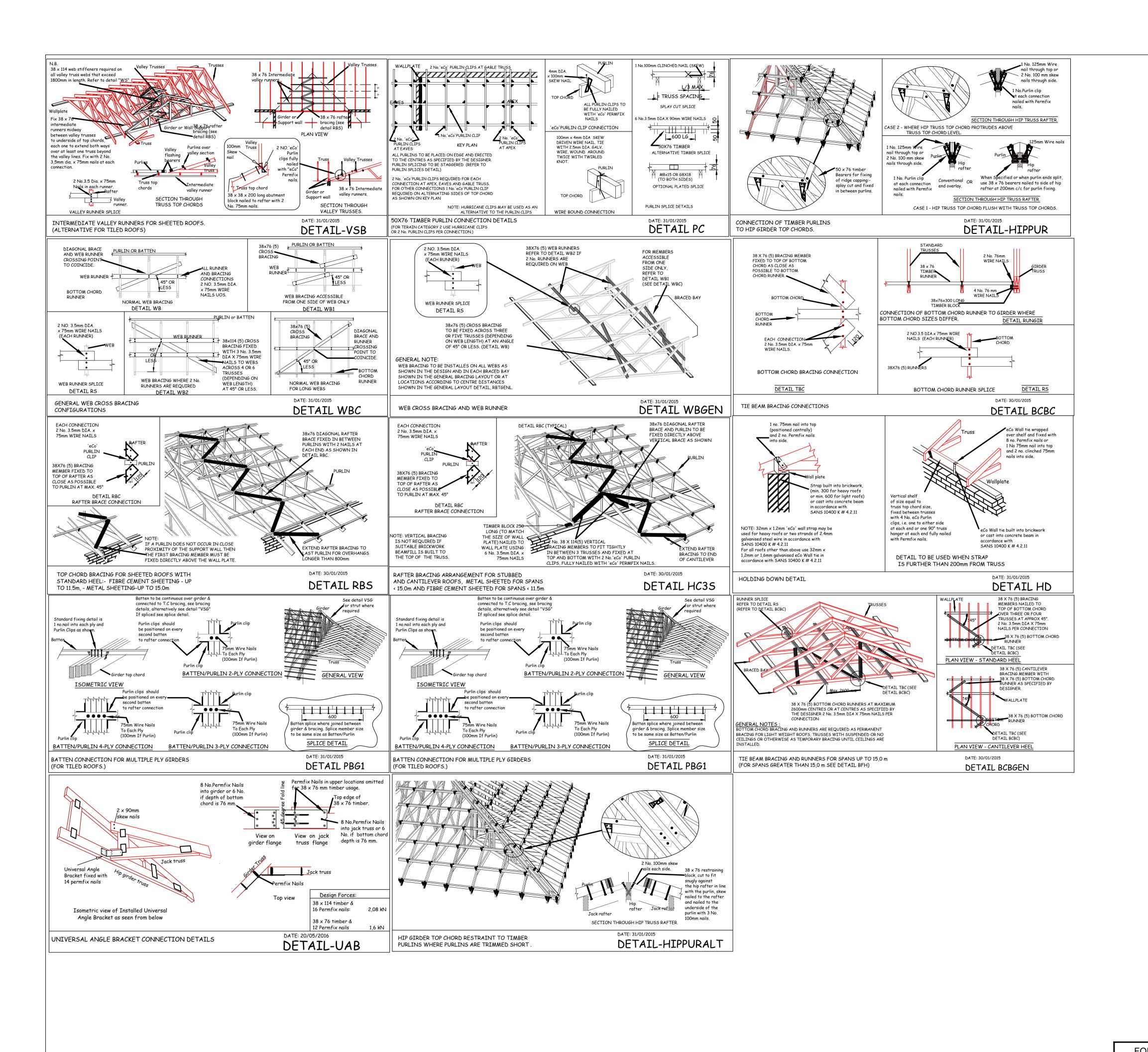
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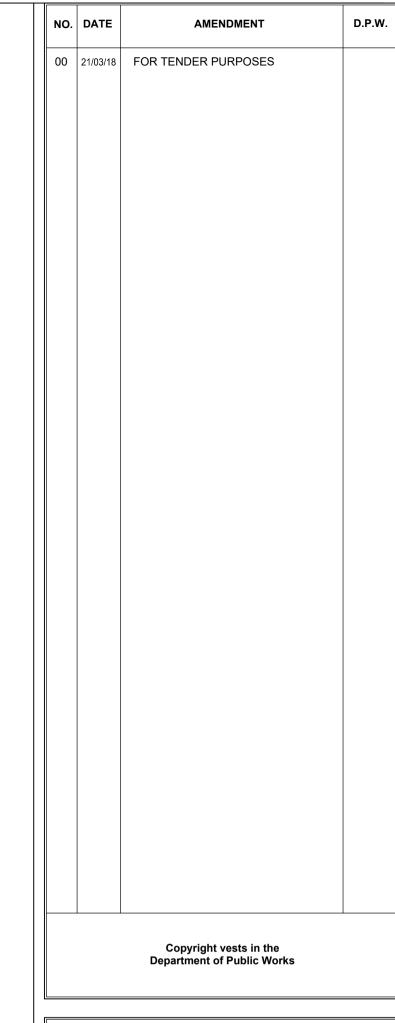
FOR TENDER PURPOSES

DETAIL - 4PLY





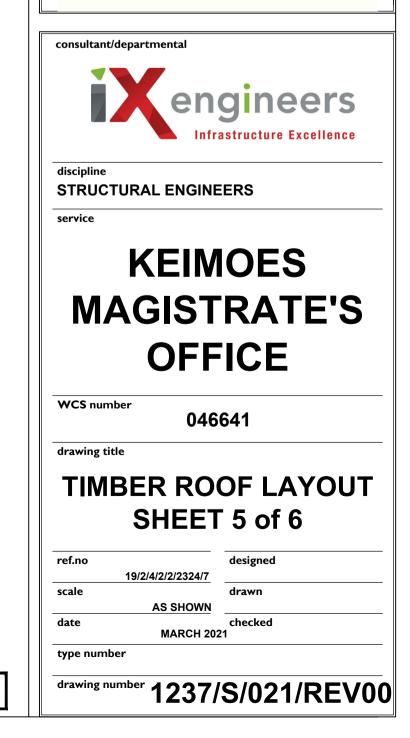




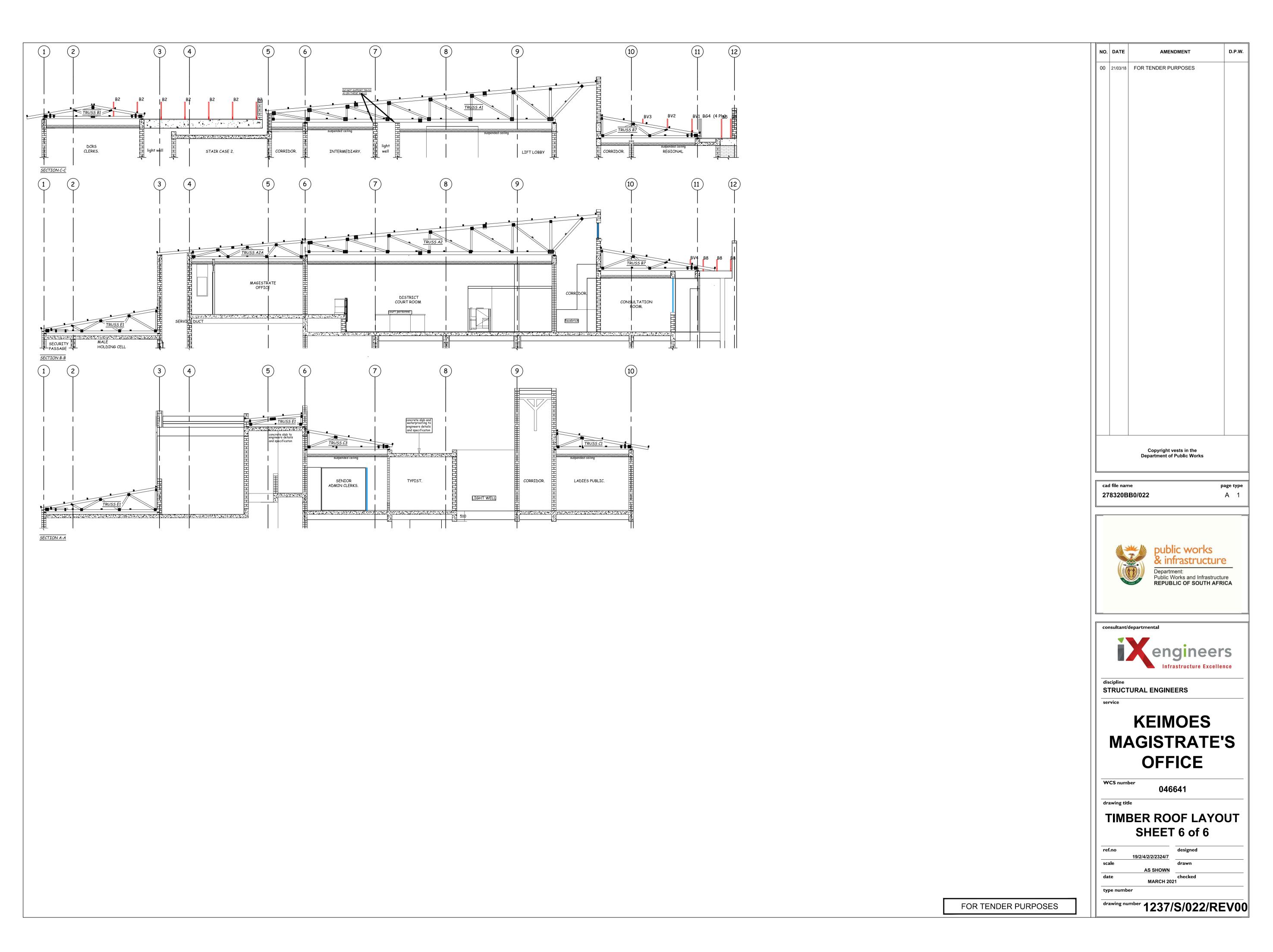
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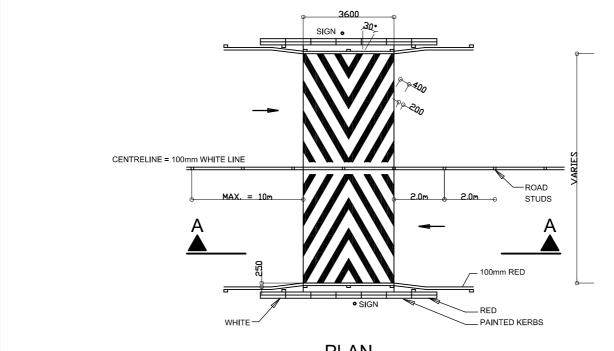
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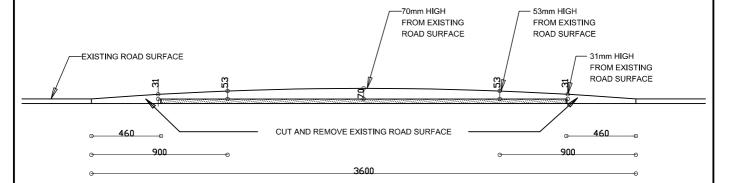
FOR TENDER PURPOSES





PLAN

SCALE 1:150

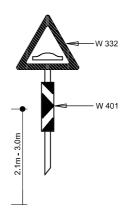


SECTION A-A

SCALE 1:25

NOTES:

- 1. PREMIX TO BE CONTINUOUSLY GRADED WITH A BINDER CONTENT OF 5.0%
- 2. ALL PAINTWORK TO BE NON REFLECTING ROAD PAINT APPLIED AT 0.42 l/sq m
- 3. SIGNPOSTS TO BE 75mm DIA GALVANISED MILD STEEL



SIGN AT SPEED HUMP

ON BOTH SIDES

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TYPICAL DETAIL OF SPEED HUMP

Scale N.T.S.

Date
OCTOBER 2011

Drawing number STE/P-31A

Electrical for (KIM03/2023)

DB's & Access Control layouts EE10742-E-300-01 to -08,

EE10742-E-327-01 to -03,

Tel & Data and Fire detection layouts EE10742-E-330-01 to -02,

EE10742-E-340-01 to -03,

Power point and Lightning layouts EE10742-E-370-01 to -03,

EE10742-E-380-01 to -02,

Single line diagram, sleeves & cable markers EE10742-E-400-01,EE10742-E-402-1,

EE10742-E-411-01,

Cable trays & channel layouts EE10742-E-701-01 to -02

HVAC power points layouts EE10742-E-747-01 to E-04

05 Mar 2021

EE1074-E-300-01-01

GLAND PLATE

FRONT PANELS

PHYSICAL BARRIERS

SPARE CAPACITY

COLOUR-FRAME

FUTURE EXPANSION

WHITE

DESIGNED Ricardo Humphreys

PLAN NUMBER

EE1074-E-300-01-02

CHECKED

0

Jerome Schroede

05 Mar 2021

REVISION NO. DATE SAVED

SERVER

X-RAY-1

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SERVER

880

EE10742-E-300-02-0 dwg printed on 19 May 2021 at 14:40:25 NOTES / LEGEND DB-2 (STANDBY SECTION) 21 JAN 2021 0 PRELIMINARY INFO ONLY FOR TENDER FOR CONSTRUCTION AS-BUILT APPROVED BY COUNCIL / CLIENT CITY ENGINEER / CLIENT DATE AMENDMENTS CODE A,B,C._/ : BEFORE TENDER /A: BY CLIENT 1,2,3.../ : AFTER TENDER /C : BY MECHANICAL OR ELECTRICA Z /: AS BUILT /E : BY OTHER (DATE INITIAL No./CODE REVISION DESCRIPTION THIS DRAWING IS THE PROPERTY OF BVI - CONSULTING ENGINEERS IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS UNDERSTANDING THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY PERSON WITHOUT THE WRITTEN PERMISSION OF THE PROPRIETORS. OFFICES Bloemfontein (051) 447-2137 bfn@bvlfs.co Springbok (027) 712-9990 Empangeni (035) 788-0230

CIRCUIT NUMBER AC7 | AC8 | AC18 | AC19 | AC5V1 | AC5V2 | AC20 | EF2 FF8 AC1 AC2 AC3 AC4 AC5 AC6 CONDUCTOR IN mm 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 **EARTH WIRE IN mm** 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 CONDUIT SIZE IN mm 25 25 25 25 25 25 25 25 25 25 25 25 25 25 25 IN POWER SKIRTING AMOUNT OF POINTS 1 1 1 1 50 50 50 50 50 50 2500 2500 300 70 LOAD IN WATTS 50 50 AC OUTDOOR UNIT **OUTDOOR UNIT OUTDOOR UNIT** AC OUTDOOR UNIT **OUTDOOR UNIT** AC OUTDOOR UNIT OUTDOOR UNIT AC OUTDOOR UNIT AC OUTDOOR UNIT AC OUTDOOR UNIT AC INDOOR UNIT OUTDOOR OUTDOOR EXTRACT FAN EXTRACT FAN

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CLIENT

ENGINEERING PROCUREMENT MANAGEMENT

₹CESA

rn Cape Cape Town (021) 527-7000 Visit or contact us online at www.bvigroup.co.za

PROJECT

KEIMOES MAGISTRATES **COURT**

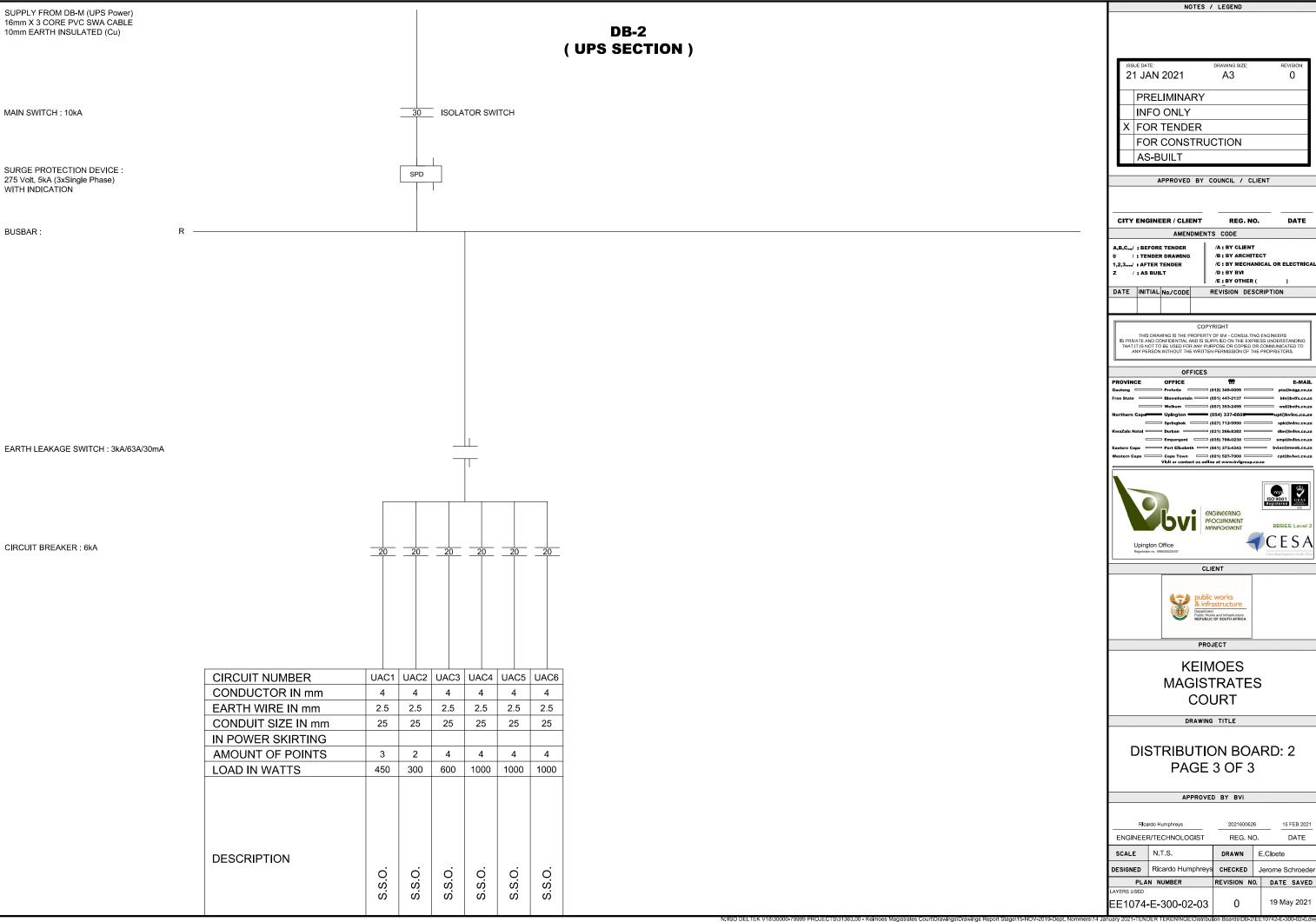
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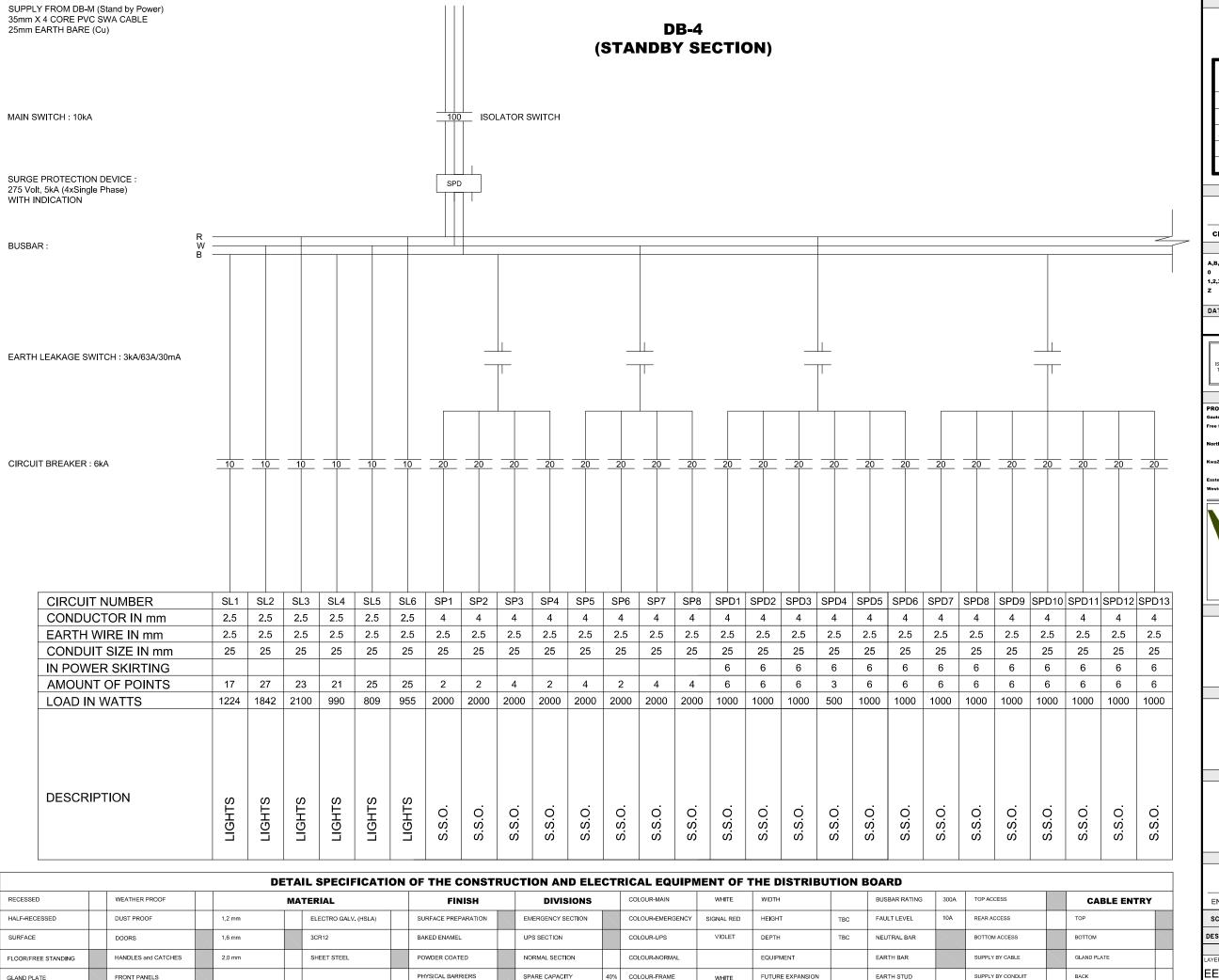
DISTRIBUTION BOARD: 2 PAGE 2 OF 3

APPROVED BY BVI

	ordo Humphreys R/TECHNOLOGIST	202160062 REG. N	
SCALE	N.T.S.	DRAWN	E.Cloete
DESIGNED	Ricardo Humphreys	CHECKED	Jerome Schroeder
PLA	N NUMBER	REVISION N	IO. DATE SAVED
EE1074	-E-300-02-02	0	19 May 2021

DESCRIPTION





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X FOR TENDER
FOR CONSTRUCTION
AS-BUILT

CITY ENGINEER / CLIENT REG. NO. DATE

AMENDMENTS CODE

APPROVED BY COUNCIL / CLIENT

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A,B,C.../: BEFORE TENDER

/A: BY CLIENT

/B: BY ARCHITECT

/C: BY MECHANICA

Z /: AS RUILT

/D: BY BVI

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DATE INITIAL No./CODE REVISION DESCRIPTION

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 bvlee@mveb.co.za

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 cpt@bvlwc.co.za





Public works infrastructure
Public Works and Infrastructure
Public Works and Infrastructure
Public OF SOUTH AFRICA

PROJECT

KEIMOES MAGISTRATES COURT

DRAWING TITLE

DISTRIBUTION BOARD: 4 PAGE 1 OF 4

APPROVED BY BVI Ricardo Humphreys 15 FEB 2021 2021600626 ENGINEER/TECHNOLOGIST REG. NO. DATE SCALE N.T.S. DRAWN E.Cloete Ricardo Humphreys CHECKED PLAN NUMBER REVISION NO. DATE SAVED 05 Mar 2021 EE1074-E-300-04-01 0

DELTEK V18/30000-79999 PROJECTS/31363.00 - Keimoes Magistrates Court/Drawings/Drawings Report Stage/15-NOV-2019-Dept. Nommers/14 January 2021-TENDER TEKENINGE/Distribution Boards/DB-4\LE10742-E-300-04-0.dw

DB-4	
(STANDBY SECTION)

Rica	rdo Humphreys	202160062	6	15 FEB 2021	
ENGINEER	REG. N	0.	DATE		
SCALE	N.T.S.	DRAWN	E.C	loete	
DESIGNED	Ricardo Humphreys	CHECKED	Jerome Schroeder		
PLA	N NUMBER	REVISION N	0.	DATE SAVED	
LAYERS USED EE1074	0		05 Mar 2021		
uary 2021-TENI	DER TEKENINGE\D i stribut	lon Boards∖DB-4	\EE10	742-E-300-04-0.dwg	

10 10 10 10 10 10 10 10 10 10 **CIRCUIT NUMBER** AC25 AC26 AC27 AC28 AC29 AC30 AC31 AC32 AC33A AC33B AC34 AC35 AC36 AC37 AC38 AC39 AC40 AC41 AC43A AC43B AC45 AC46 AC47 AC49 AC23A AC23B 4 **CONDUCTOR IN mm** 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 EARTH WIRE IN mm 2.5 CONDUIT SIZE IN mm 25 IN POWER SKIRTING AMOUNT OF POINTS 1 1 1 1 1 1 1 50 50 50 50 50 50 50 50 50 3500 3500 25 36 50 50 50 50 50 50 50 50 50 500 500 LOAD IN WATTS 50 50 50 AIR-CONDITIONER INDOOR UNIT SERVER AC **DESCRIPTION** Volume 4 Page 39

REVISION:

DATE

DB-4 (STANDBY SECTION) ISSUE DATE: 21 JAN 2021 PRELIMINARY INFO ONLY X FOR TENDER FOR CONSTRUCTION AS-BUILT CITY ENGINEER / CLIENT A,B,C.../ I BEFORE TENDER 0 / : TENDER DRAWING 1,2,3..../ : AFTER TENDER Z / I AS BUILT DATE INITIAL No./CODE THIS DRAWING IS THE PROPERTY OF BYI - CONSULTING ENGINEERS IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS UNDERSTANDING THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY PERSON WITHOUT THE WRITTEN PERMISSION OF THE PROPRIETORS. ree State | Bloemfonteln | (051) 447-2137 | bln@bvifs.co.zz

CIRCUIT NUMBER	HRU	1 HR	U2	HRL	J3	EF) E	F10	EF	11	EF	12	EF'	13
CONDUCTOR IN mm	4	4	ļ	4		4		4	4	1	4		4	
EARTH WIRE IN mm	2.5 2.5		2.5	5	2.5	5	2.5	2.	5	2.	5	2.5	5	
CONDUIT SIZE IN mm	25	2	5	25	;	25		25	2	5	2	5	25	5
IN POWER SKIRTING														
AMOUNT OF POINTS														
LOAD IN WATTS	2000	20	00	200	0	300) :	300	30	00	70	o	70)
DESCRIPTION	HR-BOX	HR-ROX	XXX	HR-BOX		EXTRACT FAN		EXTRACT FAN	EXTRACT FAN	- 1	EXTRACT FAN	- 1	EXTRACT FAN	- 1

orthern Cape Uplngton (054) 337-6606 upt@bvinc.co.za
Springbok (027) 712-9990 spk@bvinc.co.za
vaZulu Natal ——— Durban ————— (031) 266-8382 ————— dbn@bvlkn.co.za
Empangeni (035) 788-0230 emp@bvlkn.co.za
stern Cape Port Elizabeth (041) 373-4343 bvlec@mweb.co.za
estern Cape ───── Cape Town ──── (021) 527-7000 ─────────────────────── cpt⊜bvlwc.co.ze Vlslt or contact us online at www.bvlgroup.co.za
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REG. NO.

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/A : BY CLIENT

/E : BY OTHER (

REVISION DESCRIPTION

OCESA Upirgton Office



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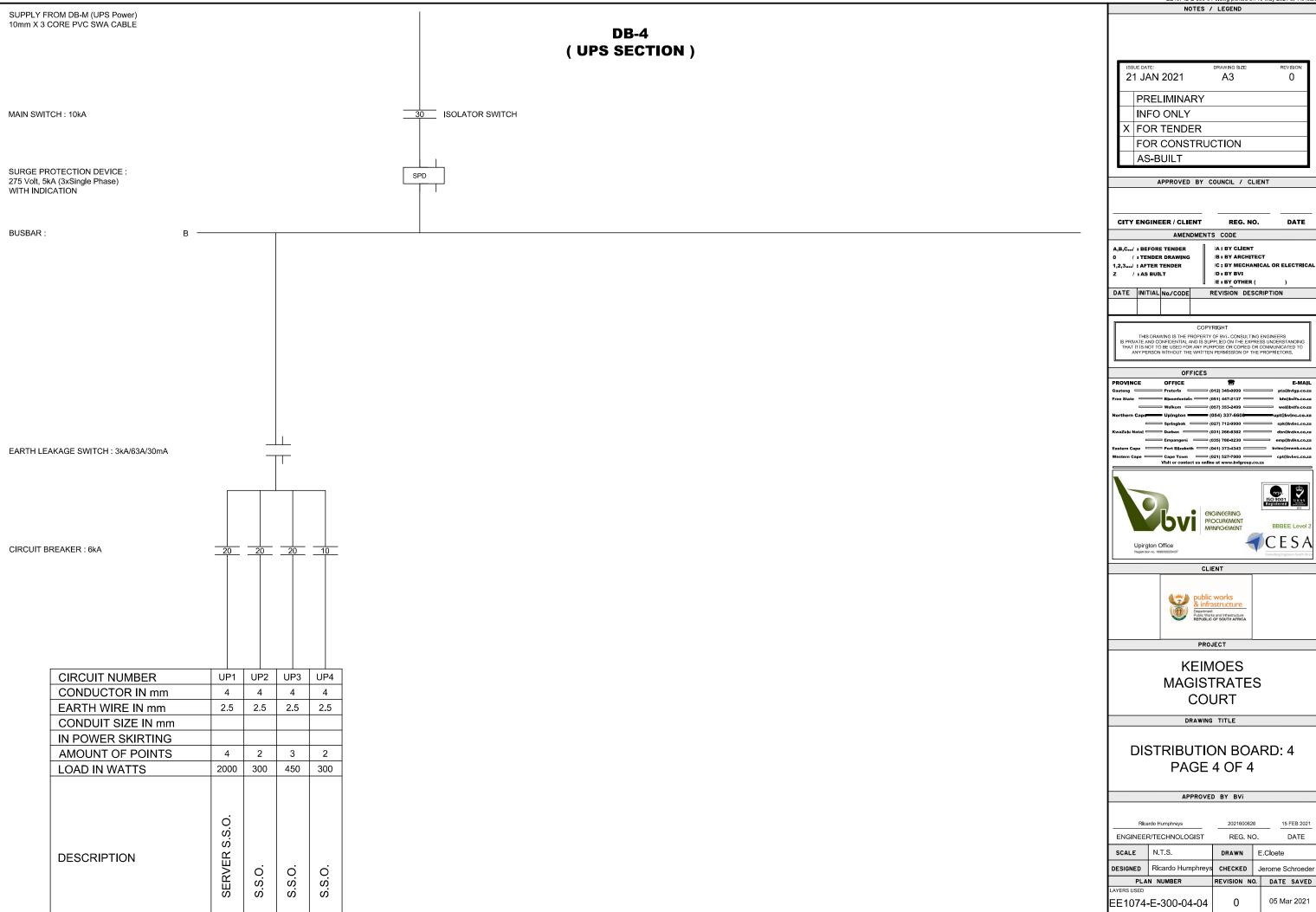
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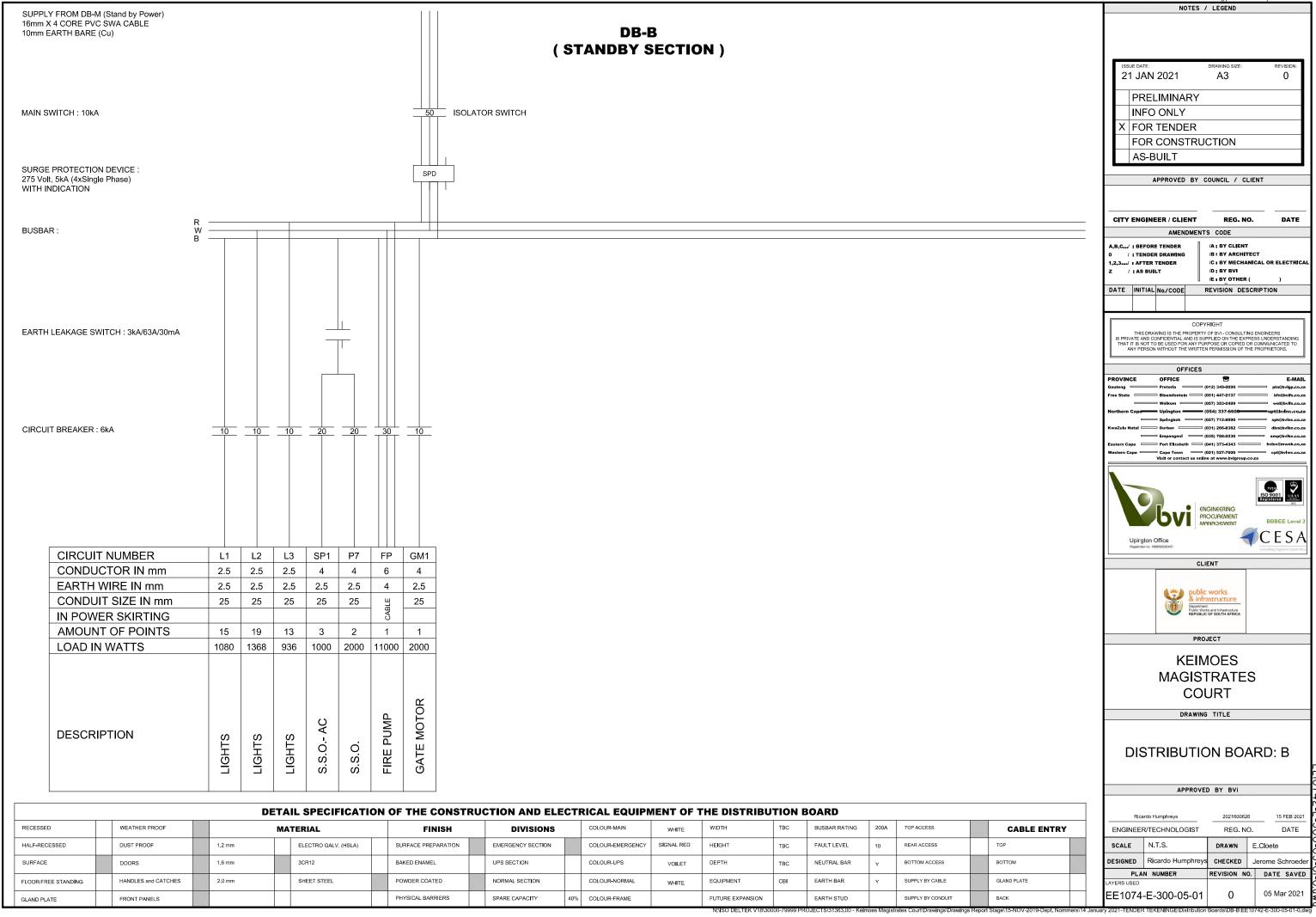
KEIMOES MAGISTRATES COURT

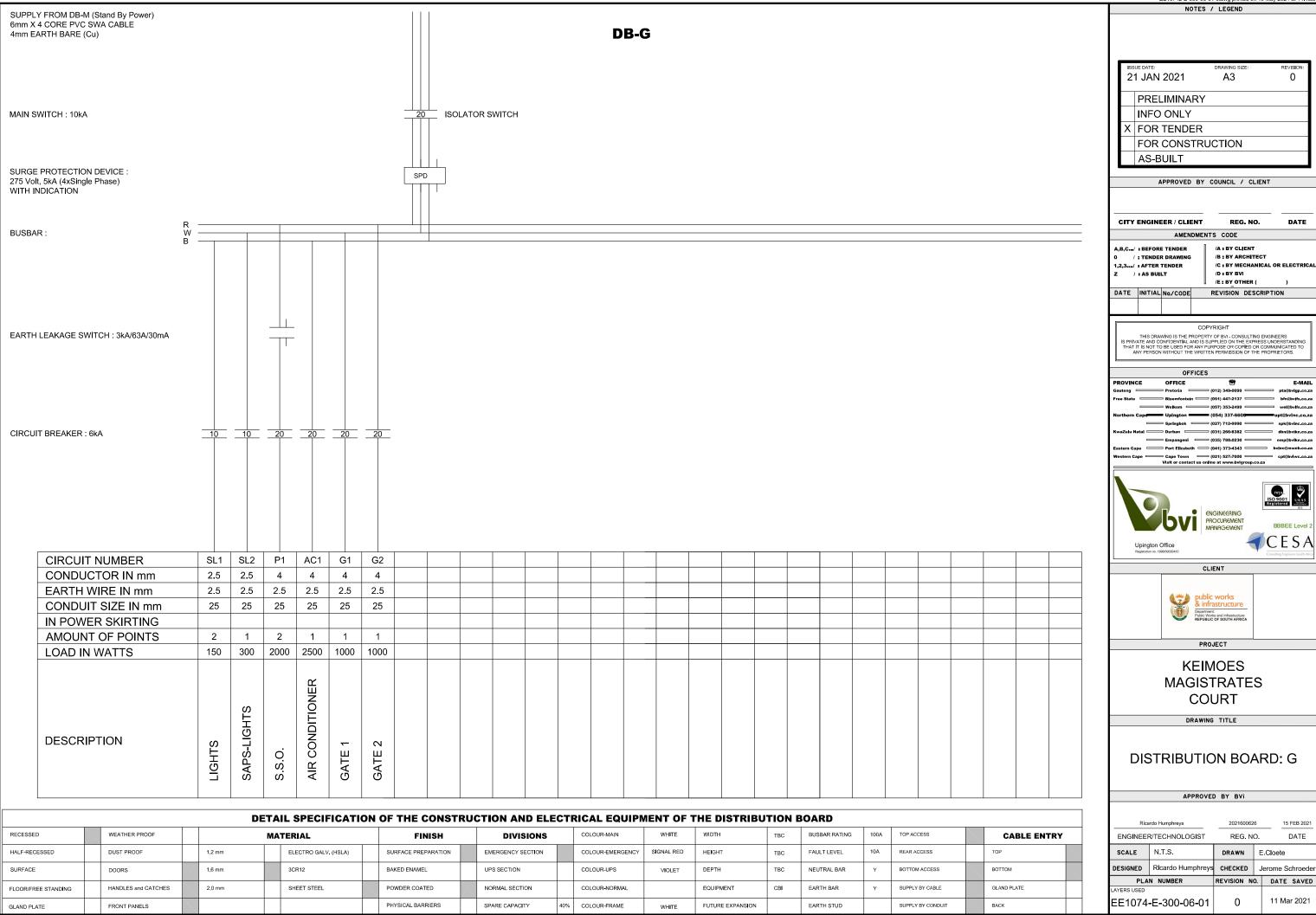
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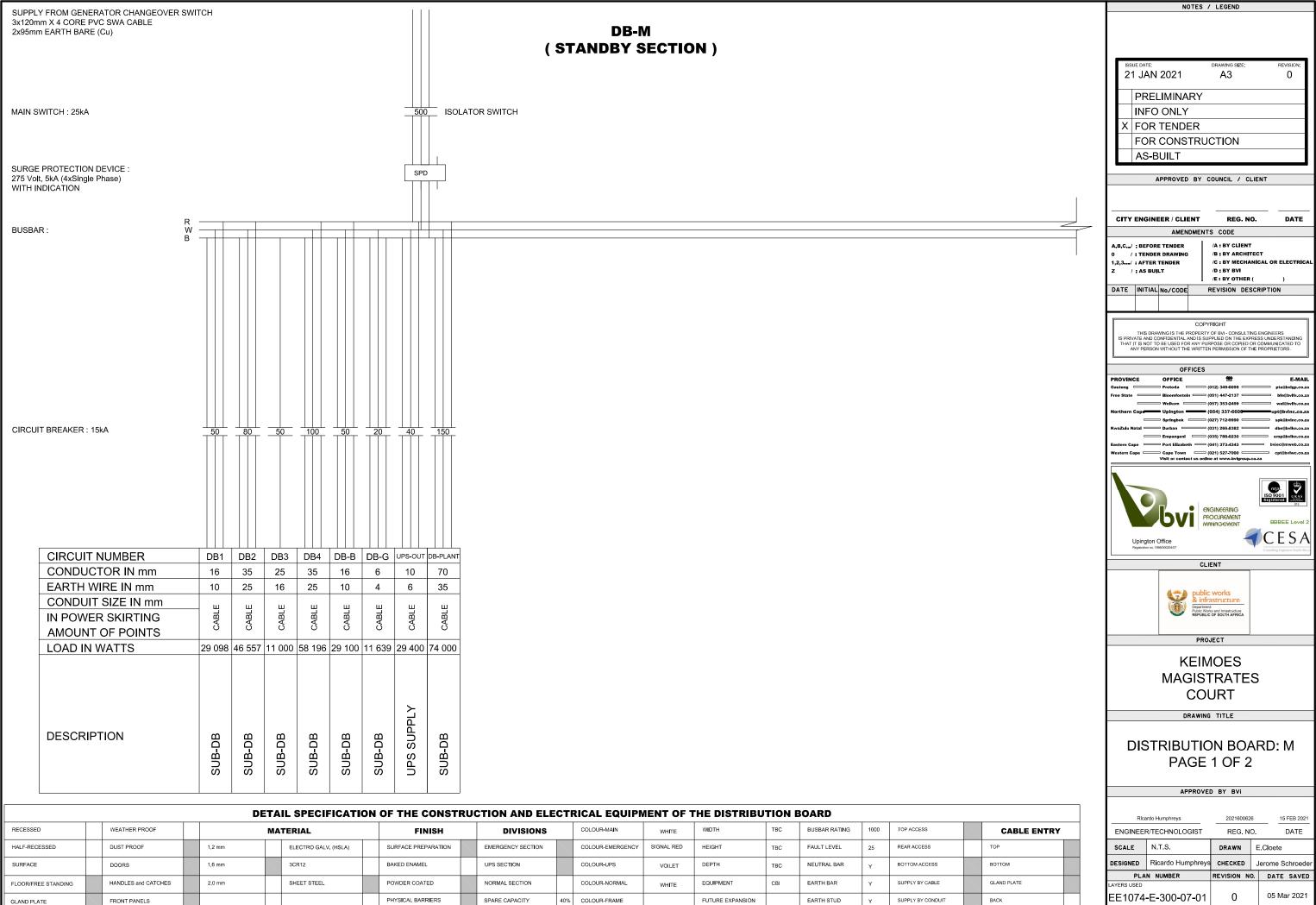
DISTRIBUTION BOARD: 4 PAGE 3 OF 4

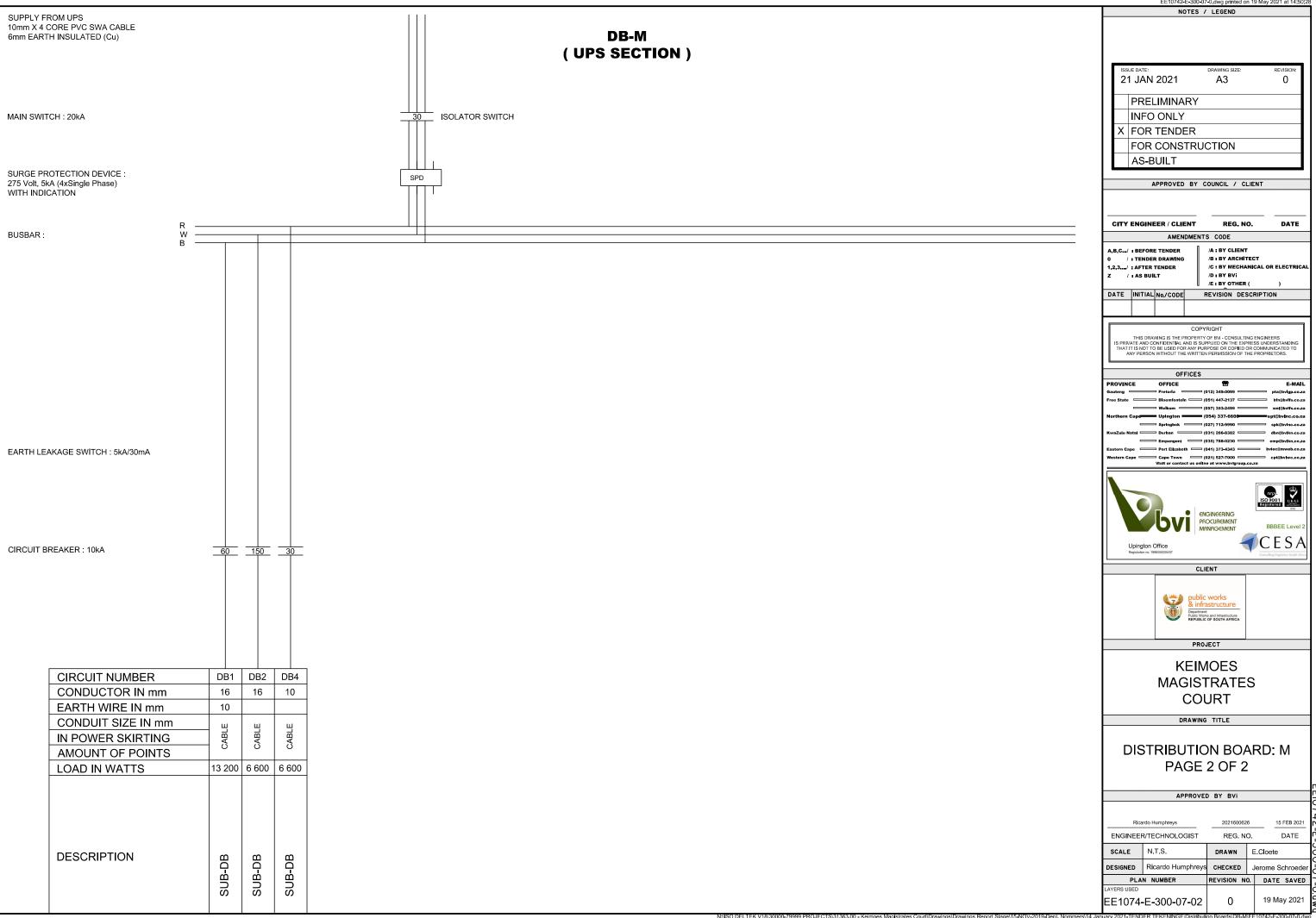
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Rica	rdo Humphreys	202160062	6 15 FEB 2021				
ENGINEER	R/TECHNOLOGIST	REG. N	O. DATE				
SCALE	N.T.S.	DRAWN E.Cloete					
TOALL		DICHINI	L.Olocic				
ESIGNED	Ricardo Humphreys	CHECKED Jerome Schroede					
PLA	N NUMBER	REVISION N	O. DATE SAVED				
AYERS USED							
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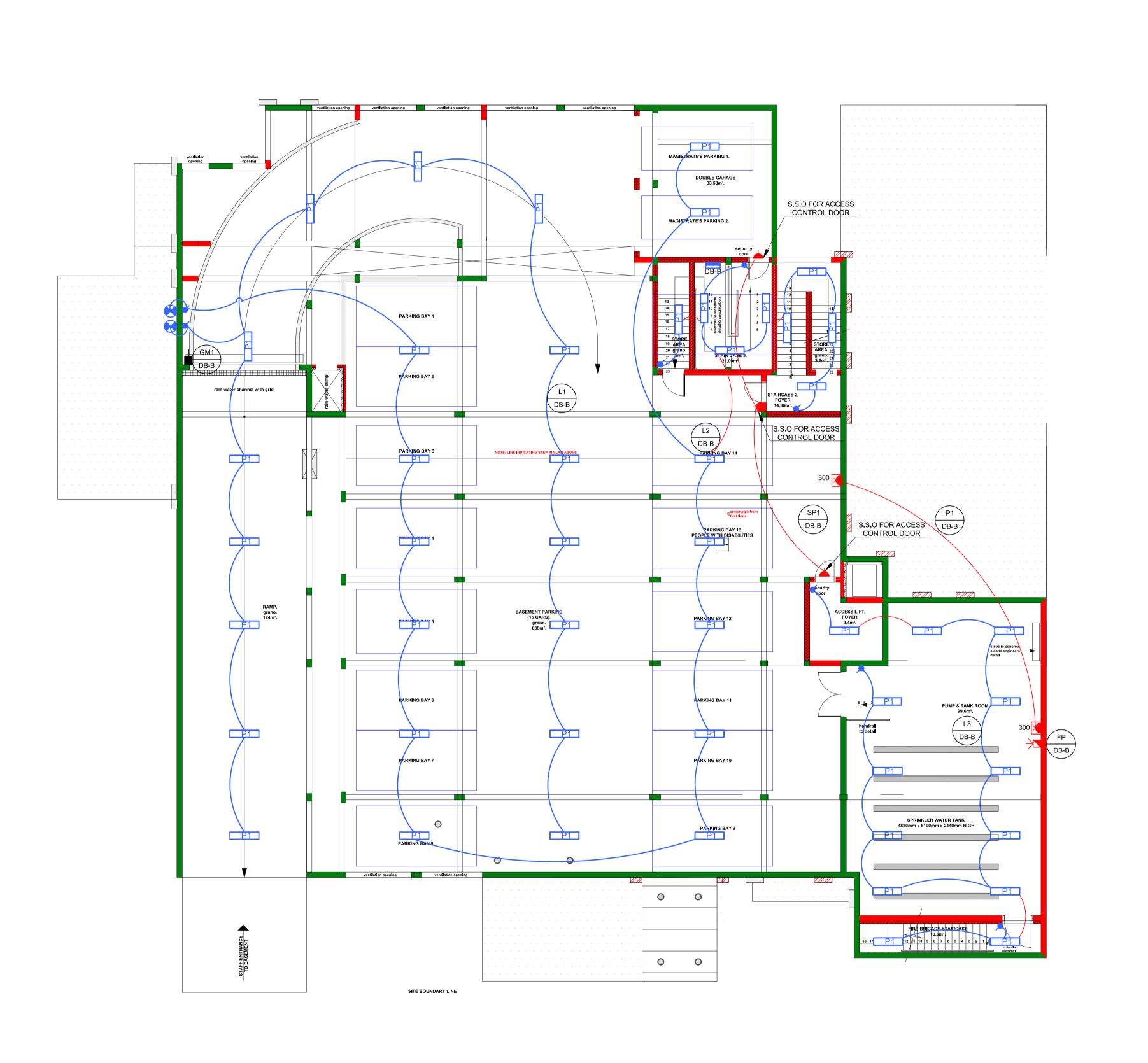


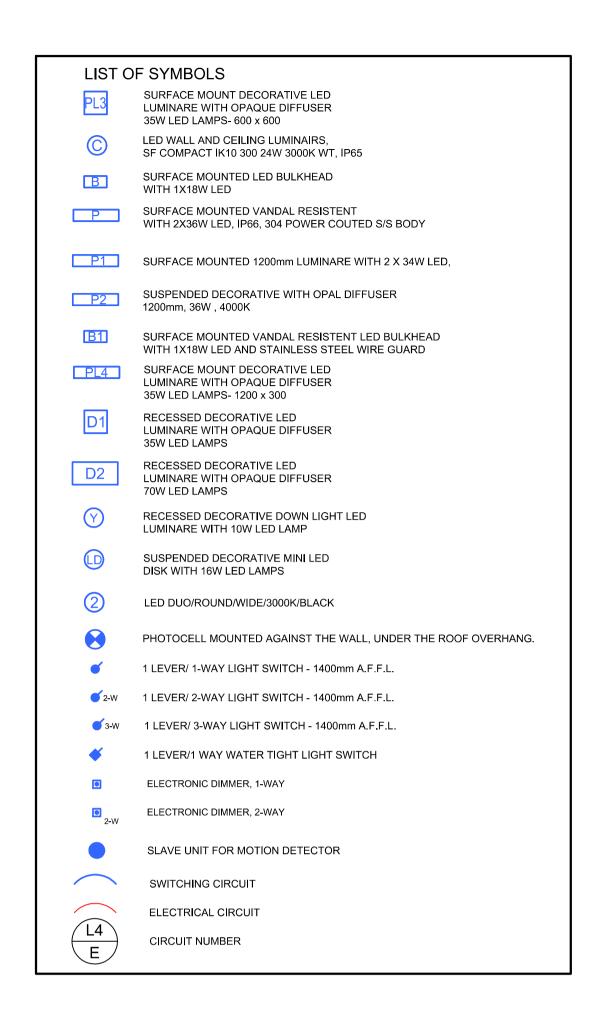












LIST OF SYMBOLS

	DISTRIBUTION BOARD
_	NORMAL POWER SINGLE SWITCH SOCKET OUTLET
<u> </u>	STANDBY POWER SINGLE SWITCH SOCKET OUTLET
<u></u>	UPS POWER SINGLE SWITCH SOCKET OUTLET
*	DOUBLE SWITCH SOCKET OUTLET
	DOUBLE SWITCH SOCKET OUTLET WATER TIGHT
	UPS POWER SINGLE PHASE ISOLATOR
	STANDBY POWER THREE PHASE ISOLATOR WATER TIGHT
	STANDBY POWER SINGLE PHASE ISOLATOR WATER TIGHT
/	ELECTRICAL CIRCUIT
P1	CIRCUIT NUMBER
	POWER SKIRTING
HDMIRCA VGA	FLOOR RETICULATION BOX
	FLOOR RETICULATION BOX
(D)	SEE TYPICAL DETAIL OF WORKSTATION
TYPE 1	DETAIL DRAWING: (OMNI CLUSTER) SSO TEL DATA TYPE 1
	P1



EE10742-E-300-08-0.dwg printed on 19 May 2021 at 15:25:35 NOTES / LEGEND

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PEN 2

REFERENCE DRAWINGS NUMBER REVISION DRAWING DESCRIPTION PEN 3 PEN 3 APPROVED BY COUNCIL / CLIENT

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CLIENT Public works
& infrastructure

Department:
Public Works and Infrastructure
REPUBLIC OF SOUTH AFRICA

KEIMOES MAGISTRATE'S COURT

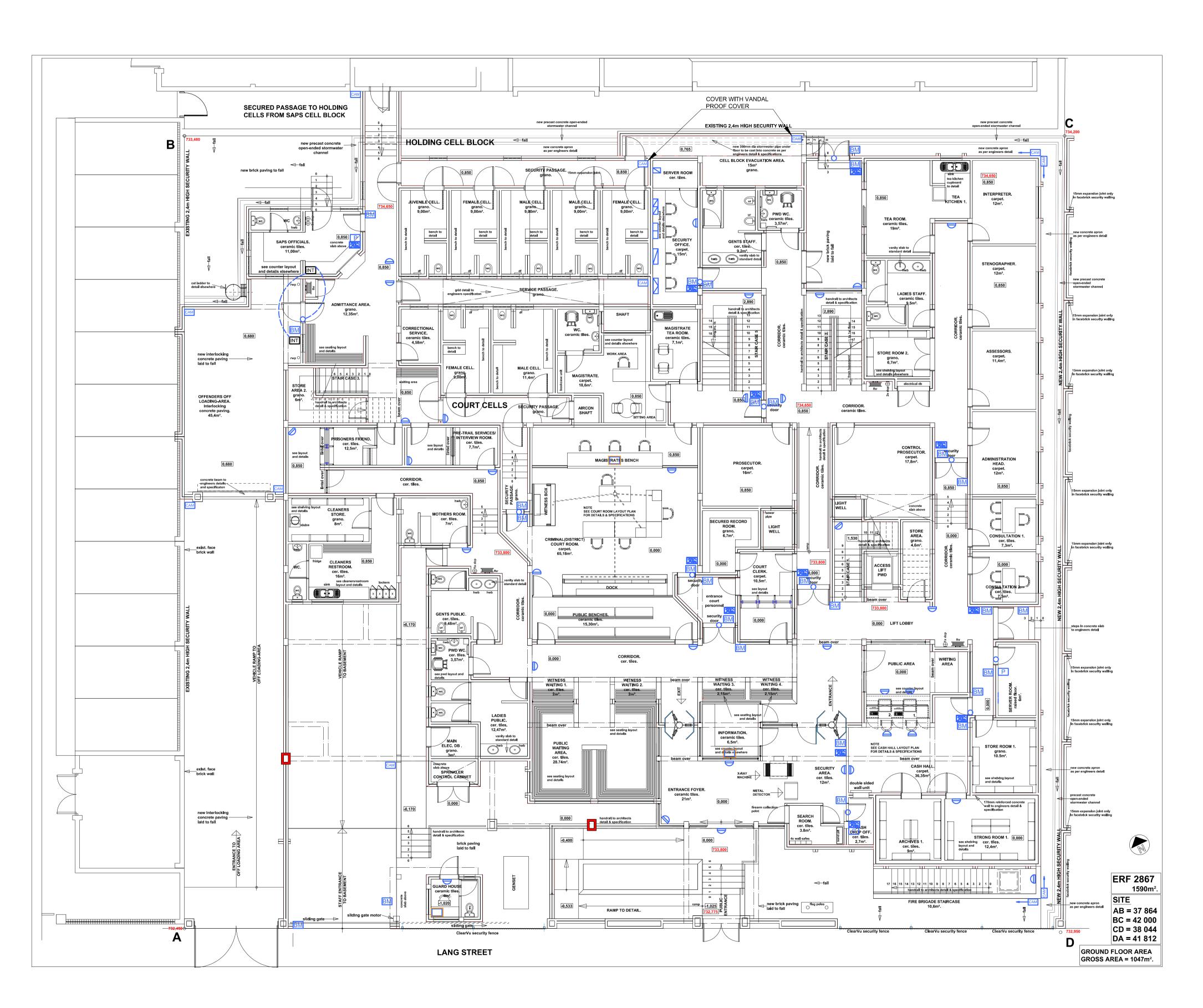
PROJECT

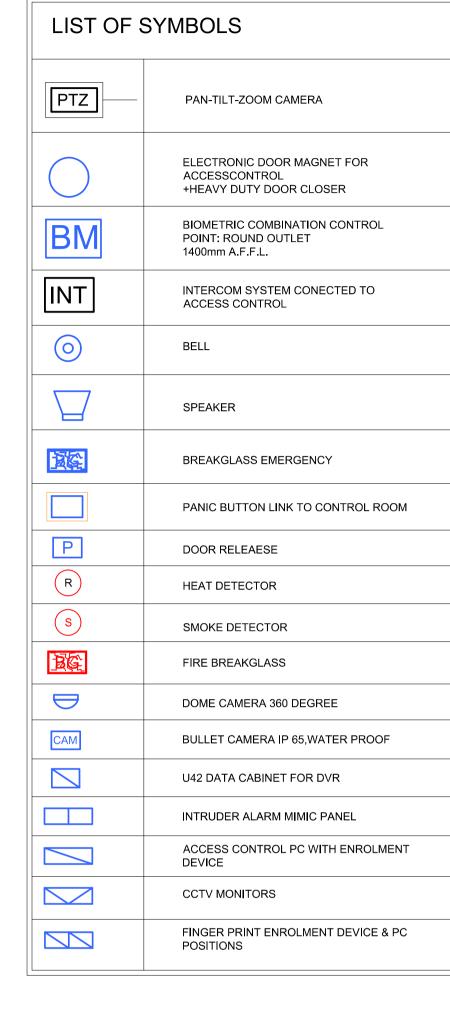
DRAWING TITLE

POWER & LIGHTING LAYOUT **BASEMENT**

2021600626 15 FEB 2021 ENGINEER/TECHNOLOGIST REG. NO. SCALE 1:100 DRAWN E.Cloete DESIGNED Ricardo Humphreys CHECKED Ricardo Humphreys REVISION NO. DATE SAVED EE10742/E/300-08 10 Mar 2021

TYPE P1 LIGHT





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LAYERS USED

PEN 2

CLIENT PLAN NUMBER

REFERENCE DRAWINGS							
NUMBER	REVISION	DRAWING DESCRIPTION					
PEN 3	PEN 3	PEN 3					
APPROVED BY COUNCIL / CLIENT							

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/B : BY ARCHITECT 0 / : TENDER DRAWING /C : BY MECHANICAL OR ELECTRICAL 1,2,3..../ : AFTER TENDER Z / : AS BUILT /D : BY BVi /E : BY OTHER (DATE INITIAL No./CODE REVISION DESCRIPTION

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PROJECT

KEIMOES MAGISTRATE'S COURT

DRAWING TITLE

ACCESS CONTROL LAYOUT **GROUND FLOOR**

APPROVED BY BVI

Ricard	2021600	15 FEB 2021		
ENGINEER	REG. N	DATE		
SCALE	1:100	DRAWN	E.C	Cloete
DESIGNED	Ricardo Humphreys	CHECKED	Ric	ardo Humphreys
PLAN	NUMBER	REVISION NO.		DATE SAVED

19 May 2021 EE10742/E/327-01 N:\ISO DELTEK V18\30000-79999 PROJECTS\31363.00 - Keimoes Magistrates Court\Drawings\Drawings Report Stage\15-NOV-2019-Dept. Nommers\14 January 2021\Access Control\EE-10742-E-327-01-0.dwg

NOTES / LEGEND

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BEFORE CONSTRUCTION COMMENCES.

REVISION: Α1 19 May 2021

PRELIMINARY INFO ONLY FOR TENDER FOR CONSTRUCTION AS-BUILT CLIENT PLAN NUMBER

LAYERS USED PEN 2

REFERENCE DRAWINGS NUMBER REVISION DRAWING DESCRIPTION PEN 3 PEN 3

CITY ENGINEER / CLIENT REG. NO. DATE

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DATE | INITIAL | No./CODE |

PROCUREMENT MANAGEMENT

Port Elizabeth (041) 373-4343 bviec@mweb.co.ze

₹CESA CLIENT



PROJECT

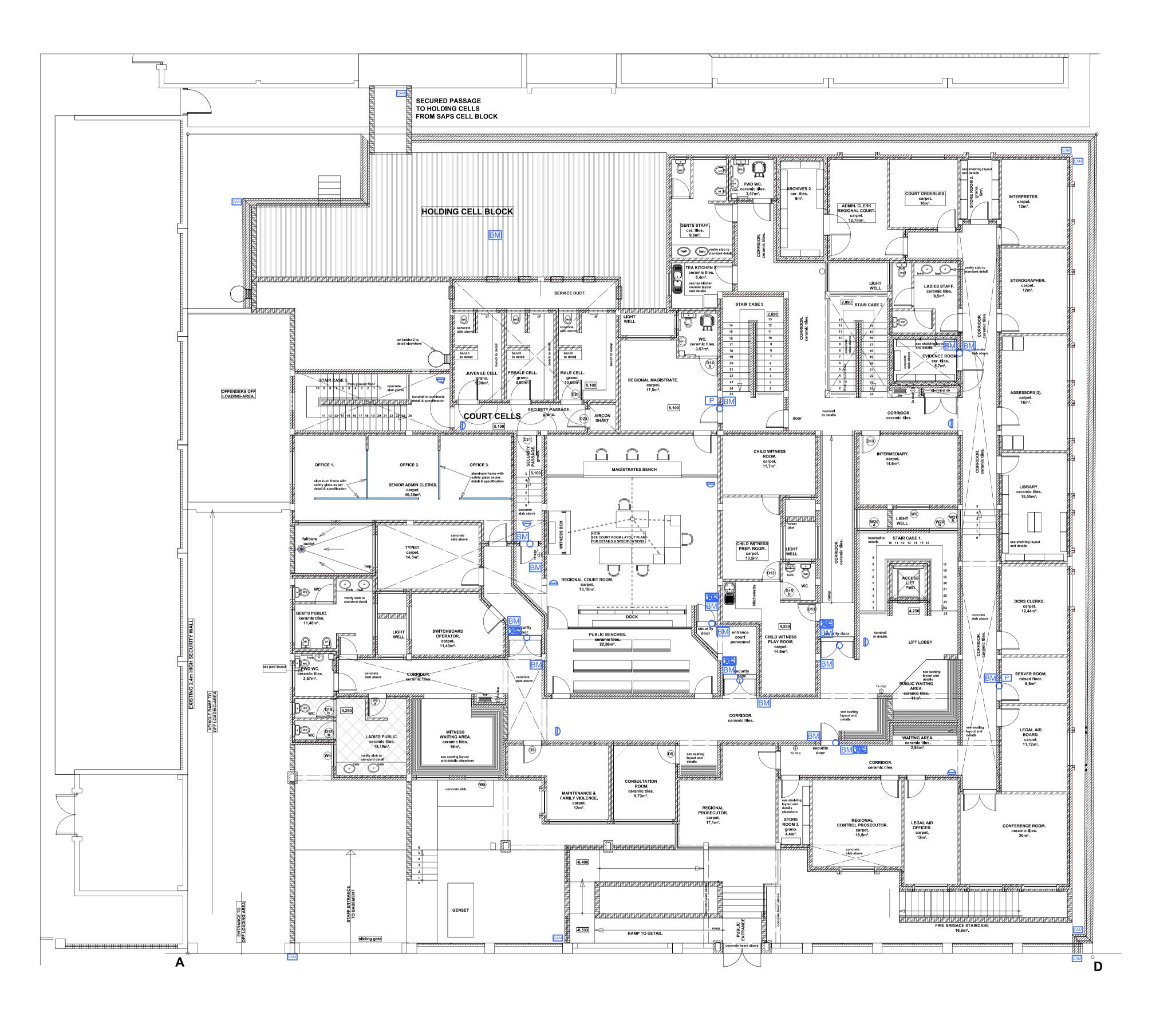
KEIMOES MAGISTRATE'S COURT

DRAWING TITLE

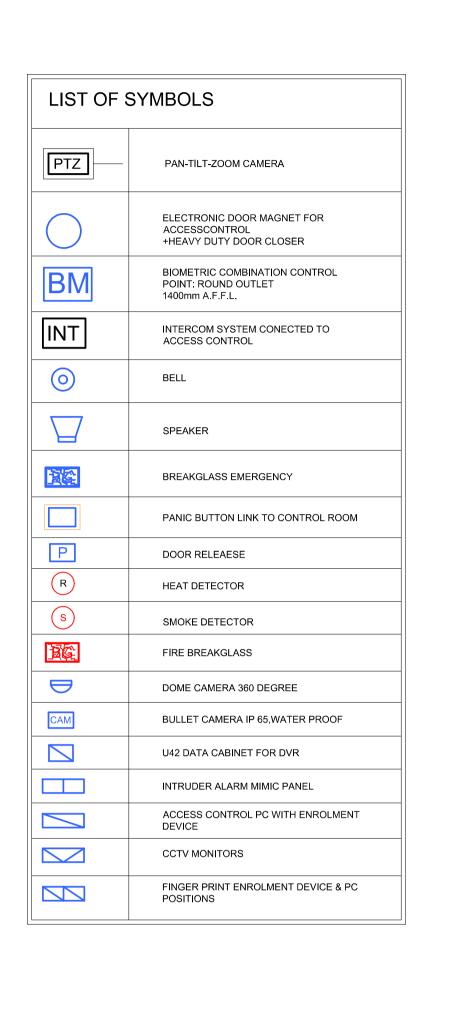
ACCESS CONTROL LAYOUT FIRST FLOOR

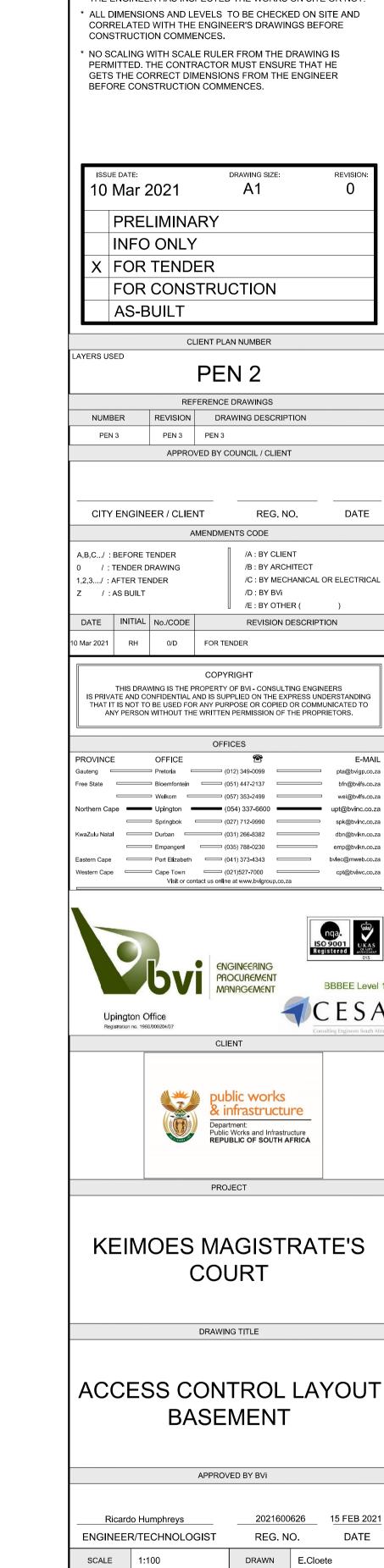
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2021600626 15 FEB 2021 Ricardo Humphreys ENGINEER/TECHNOLOGIST REG. NO. DESIGNED Ricardo Humphreys CHECKED Ricardo Humphreys PLAN NUMBER REVISION NO. DATE SAVED EE10742/E/327-02 19 May 2021



PTZ	PAN-TILT-ZOOM CAMERA
	ELECTRONIC DOOR MAGNET FOR ACCESSCONTROL +HEAVY DUTY DOOR CLOSER
BM	BIOMETRIC COMBINATION CONTROL POINT: ROUND OUTLET 1400mm A.F.F.L.
INT	INTERCOM SYSTEM CONECTED TO ACCESS CONTROL
0	BELL
	SPEAKER
B C	BREAKGLASS EMERGENCY
	PANIC BUTTON LINK TO CONTROL ROOM
Р	DOOR RELEAESE
R	HEAT DETECTOR
S	SMOKE DETECTOR
BC	FIRE BREAKGLASS
$\overline{\Box}$	DOME CAMERA 360 DEGREE
CAM	BULLET CAMERA IP 65,WATER PROOF
	U42 DATA CABINET FOR DVR
	INTRUDER ALARM MIMIC PANEL
	ACCESS CONTROL PC WITH ENROLMENT DEVICE
	CCTV MONITORS
	FINGER PRINT ENROLMENT DEVICE & PC POSITIONS





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CHECKED Ricardo Humphreys

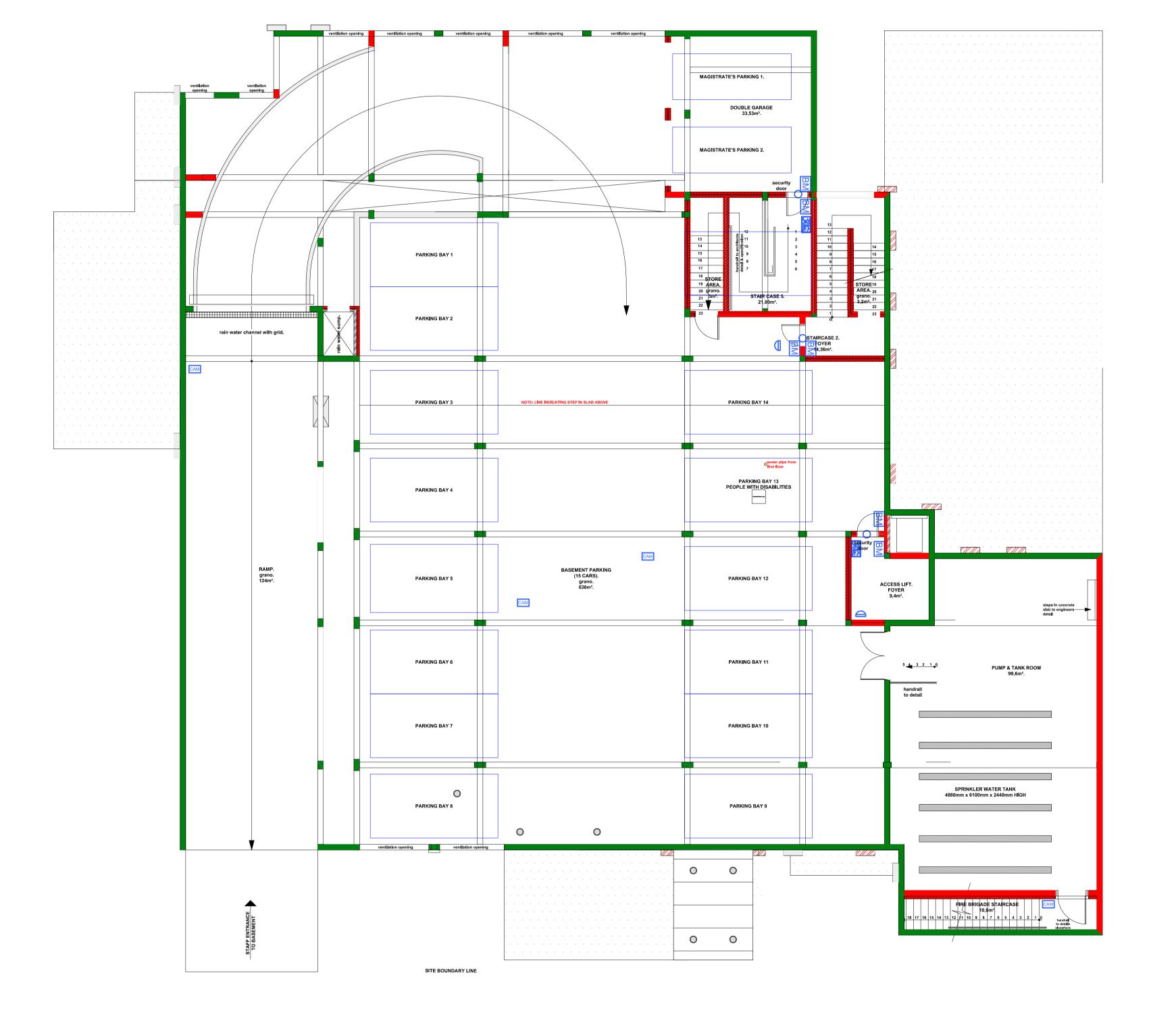
REVISION NO. DATE SAVED

10 Mar 2021

DESIGNED Ricardo Humphreys

EE10742/E/327-03

PLAN NUMBER





LIST OF SYMBOLS

TELEPHONE OUTLET POINT



DATA OUTLET POINT

SLEEVES FOR DATA



POWER SKIRTING



DATA DISTRIBUTION BOARD



TELEPHONE DISTRIBUTION BOARD



SLEEVES FOR TELEPHONE



Z / : AS BUILT

10 Mar 2021

PRELIMINARY

INFO ONLY

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GENERAL

CONSTRUCTION COMMENCES.

BEFORE CONSTRUCTION COMMENCES.

PEN 2 REFERENCE DRAWINGS

FOR CONSTRUCTION

REVISION DRAWING DESCRIPTION APPROVED BY COUNCIL / CLIENT

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KEIMOES MAGISTRATE'S COURT

DRAWING TITLE

TEL & DATA LAYOUT GROUND FLOOR

Ricardo Humphreys ENGINEER/TECHNOLOGIST REG. NO. SCALE 1:100 DRAWN E.Cloete DESIGNED Ricardo Humphreys CHECKED Ricardo Humphreys PLAN NUMBER REVISION NO. DATE SAVED EE10742/E/330-01

APPROVED BY BVi



LIST OF SYMBOLS

TELEPHONE OUTLET POINT



DATA OUTLET POINT



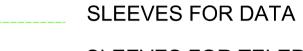
■ POWER SKIRTING



DATA DISTRIBUTION BOARD



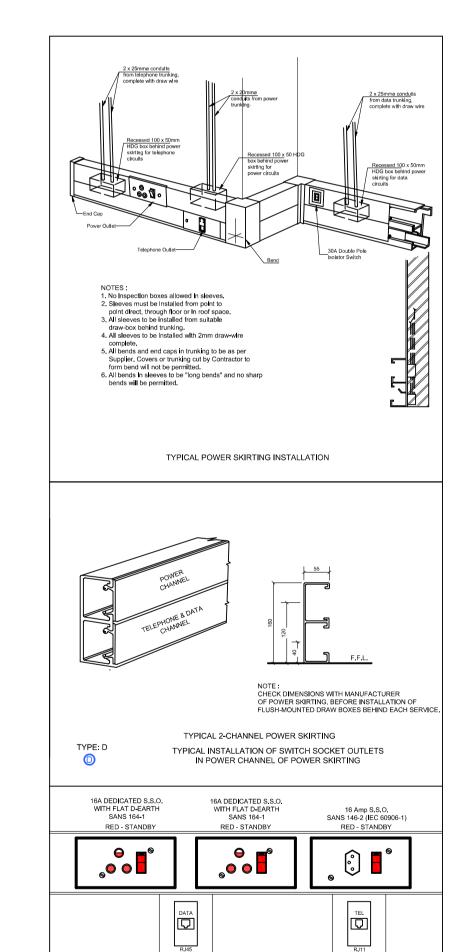
TELEPHONE DISTRIBUTION BOARD



SLEEVES FOR TELEPHONE



DATA POINT FOR WIFI AP IN CEILING VOID



GENERAL

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	Springbok	(027) 712-9990		spk@bvlnc.co.za
KwaZulu Natal	Durban =	(031) 266-8382		dbn@bv i kn.co.za
	Empangeni	(035) 788-0230		emp@bv i kn.co.za
Eastern Cape	Port Elizabeth	(041) 373-4343		bviec@mweb.co.za
Western Cape	Cape Town	(021)527-7000		cpt@bvlwc.co.za
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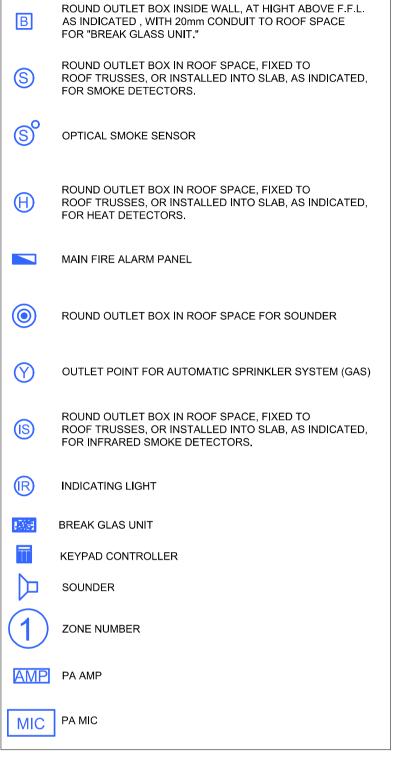
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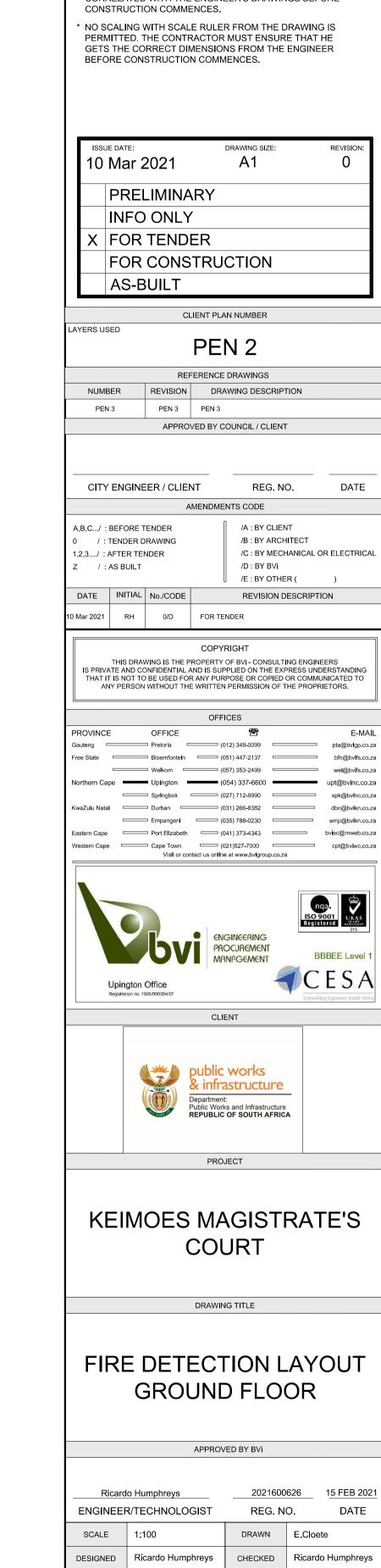
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DRAWING TITLE

TEL & DATA LAYOUT FIRST FLOOR

APPROVED BY BVI				
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ENGINEER/TECHNOLOGIST		REG. N	Ο.	DATE
SCALE	1:100	DRAWN	E.0	Cloete
DESIGNED	Ricardo Humphreys	CHECKED	Ric	cardo Humphreys
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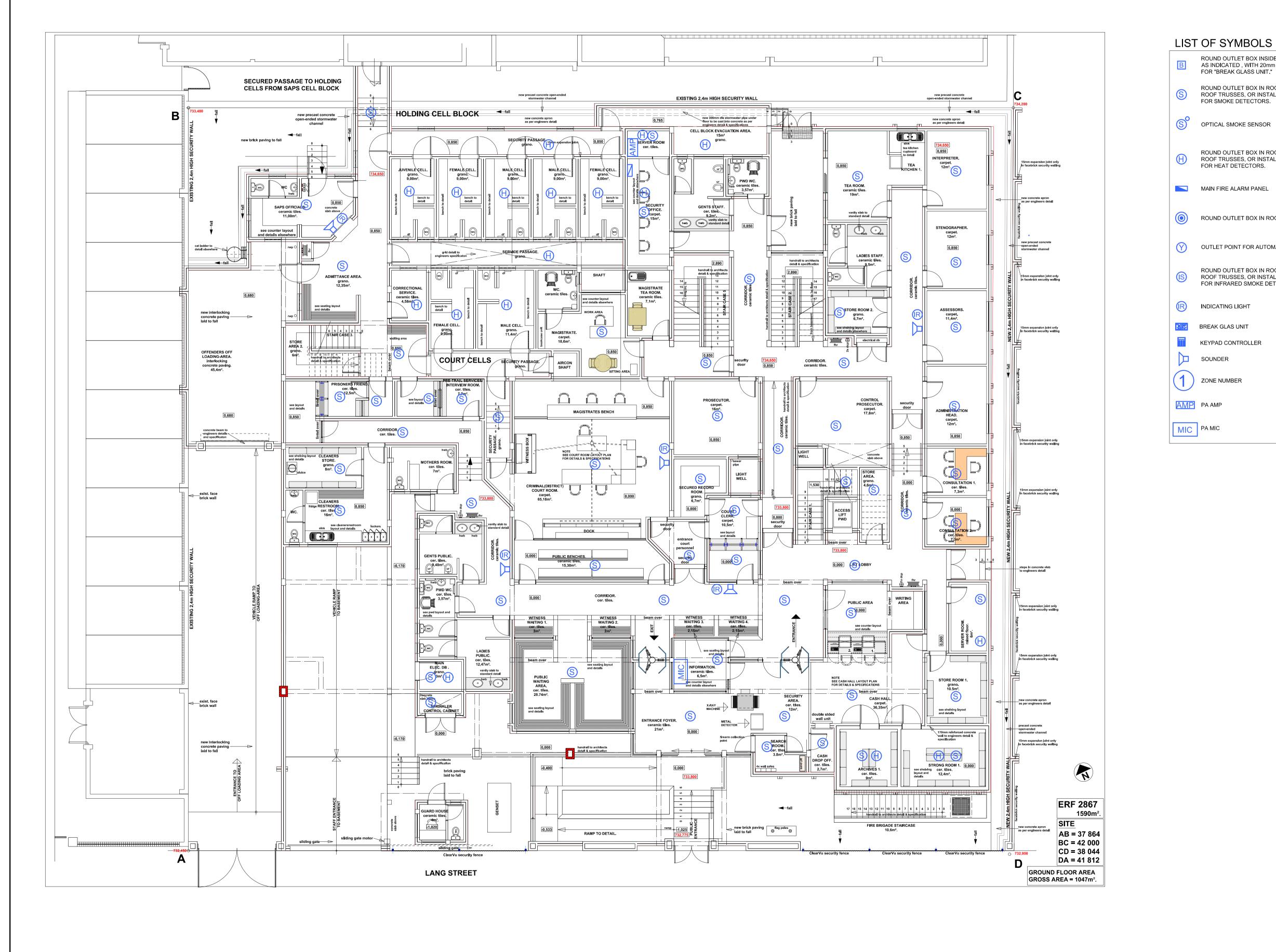
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DATE SAVED

10 Mar 2021





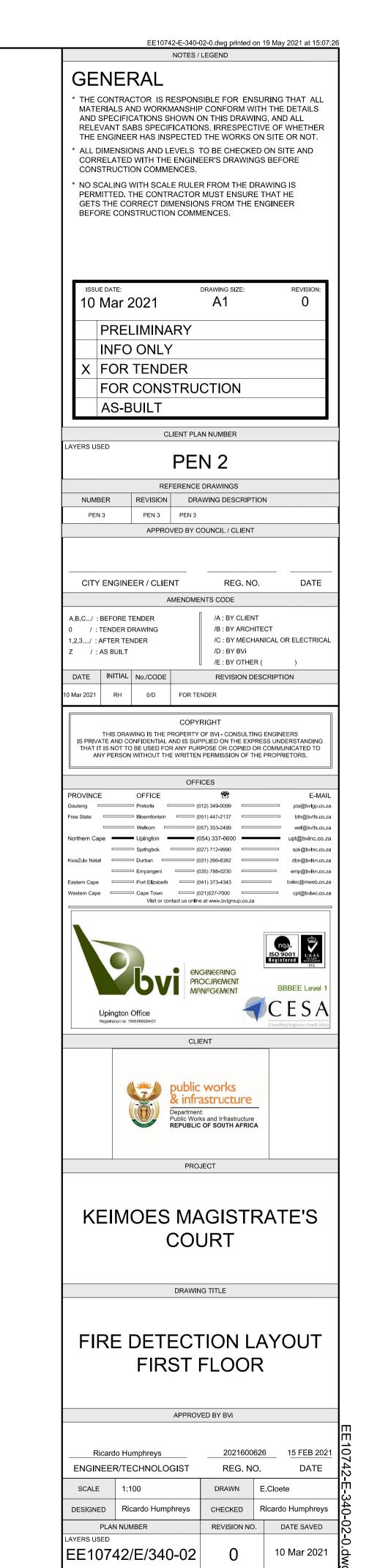
LIST OF SYMBOLS ROUND OUTLET BOX INSIDE WALL, AT HIGHT ABOVE F.F.L. AS INDICATED, WITH 20mm CONDUIT TO ROOF SPACE FOR "BREAK GLASS UNIT." ROUND OUTLET BOX IN ROOF SPACE, FIXED TO ROOF TRUSSES, OR INSTALLED INTO SLAB, AS INDICATED, FOR SMOKE DETECTORS. OPTICAL SMOKE SENSOR ROUND OUTLET BOX IN ROOF SPACE, FIXED TO ROOF TRUSSES, OR INSTALLED INTO SLAB, AS INDICATED, FOR HEAT DETECTORS. MAIN FIRE ALARM PANEL ROUND OUTLET BOX IN ROOF SPACE FOR SOUNDER OUTLET POINT FOR AUTOMATIC SPRINKLER SYSTEM (GAS) ROUND OUTLET BOX IN ROOF SPACE, FIXED TO ROOF TRUSSES, OR INSTALLED INTO SLAB, AS INDICATED, FOR INFRARED SMOKE DETECTORS. INDICATING LIGHT **BREAK GLAS UNIT** KEYPAD CONTROLLER

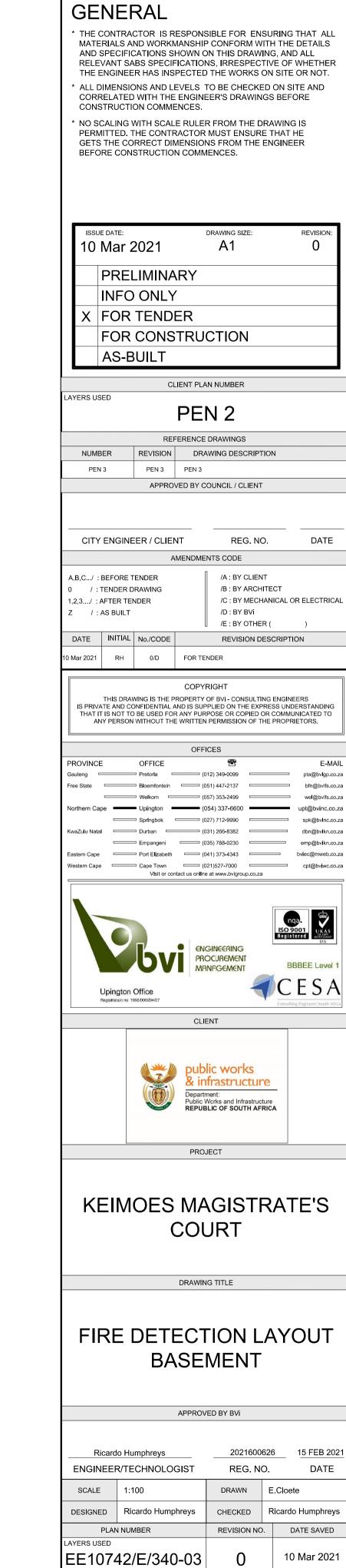
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MIC PA MIC

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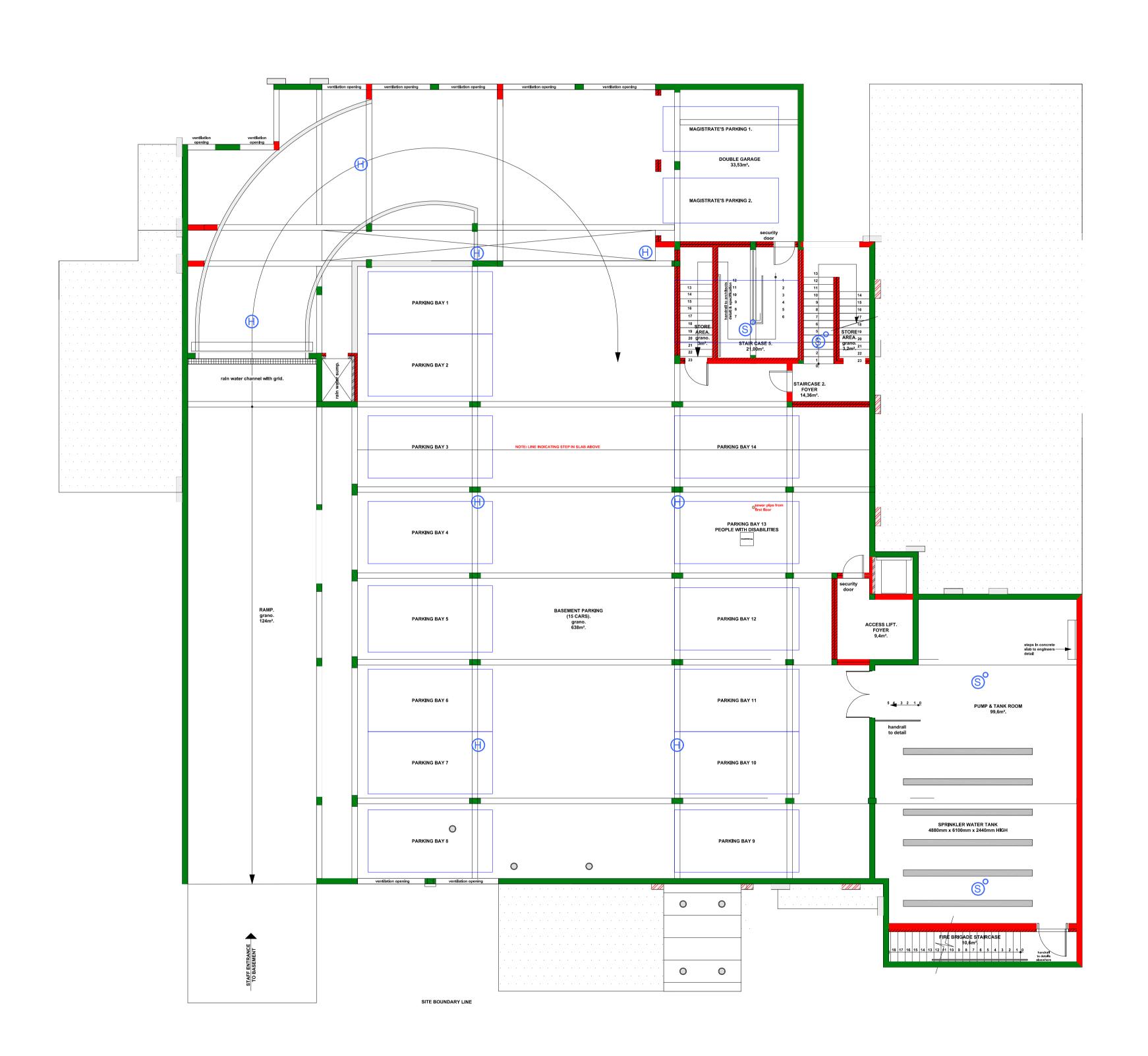
REVISION DESCRIPTION

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/C : BY MECHANICAL OR ELECTRICAL

₹CESA

NOTES / LEGEND



FOR "BREAK GLASS UNIT."

ROUND OUTLET BOX IN ROOF SPACE, FIXED TO ROOF TRUSSES, OR INSTALLED INTO SLAB, AS INDICATED, FOR SMOKE DETECTORS.

OPTICAL SMOKE SENSOR

ROUND OUTLET BOX IN ROOF SPACE, FIXED TO ROOF TRUSSES, OR INSTALLED INTO SLAB, AS INDICATED, FOR HEAT DETECTORS.

MAIN FIRE ALARM PANEL

ROUND OUTLET BOX IN ROOF SPACE FOR SOUNDER

ROUND OUTLET BOX IN ROOF SPACE, FIXED TO

KEYPAD CONTROLLER

SOUNDER

ZONE NUMBER

MIC PA MIC

LIST OF SYMBOLS

ROUND OUTLET BOX INSIDE WALL, AT HIGHT ABOVE F.F.L. AS INDICATED, WITH 20mm CONDUIT TO ROOF SPACE

OUTLET POINT FOR AUTOMATIC SPRINKLER SYSTEM (GAS)

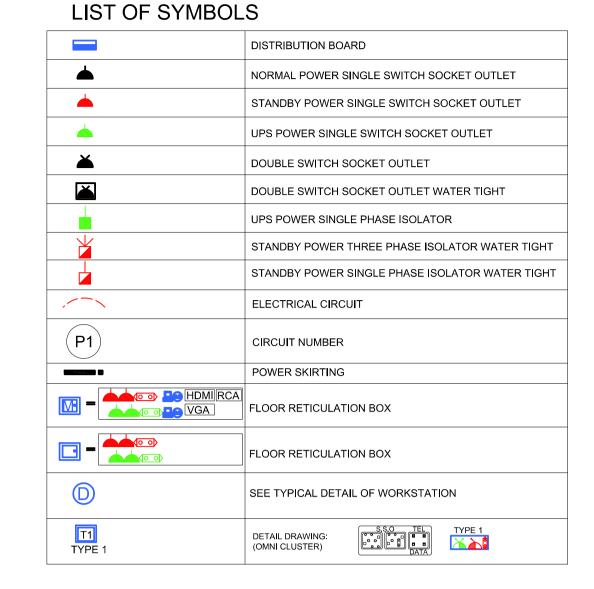
ROOF TRUSSES, OR INSTALLED INTO SLAB, AS INDICATED, FOR INFRARED SMOKE DETECTORS.

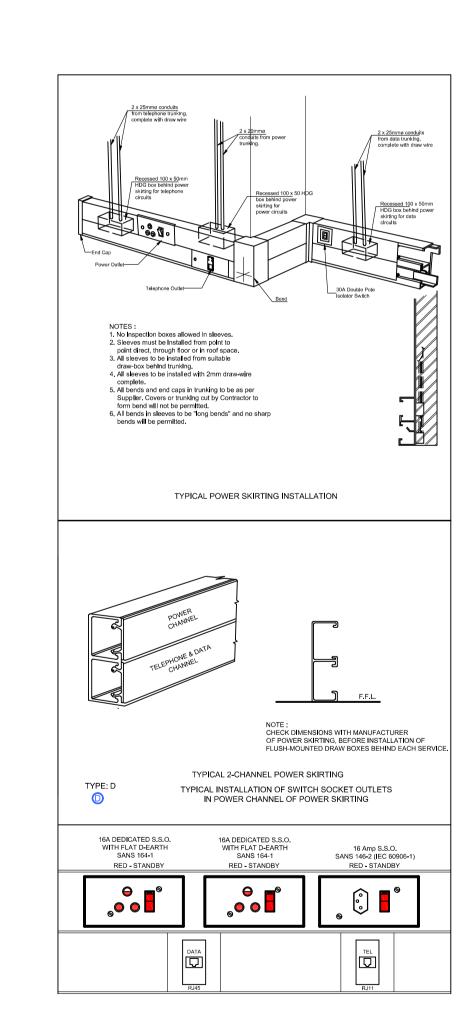
INDICATING LIGHT

BREAK GLAS UNIT

AMP PA AMP

2021600626 15 FEB 2021 ENGINEER/TECHNOLOGIST REG. NO. DRAWN E.Cloete DESIGNED Ricardo Humphreys CHECKED Ricardo Humphreys REVISION NO. DATE SAVED 10 Mar 2021





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CONSTRUCTION COMMENCES.

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CLIENT PLAN NUMBER
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CITY ENGINEER / CLIENT

PEN 2

REFERENCE DRAWINGS				
NUMBER	REVISION	DRAWING DESCRIPTION		
PEN 3	PEN 3	PEN 3		
APPROVED BY COUNCIL / CLIENT				

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Free State Bloemfontein (051) 447-2137 bfn@bvifs Welkom (057) 353-2499 wel@bvifs Northern Cape Upington (054) 337-6600 upt@bvinc Springbok (027) 712-9990 spk@bvinc KwaZulu Natal Durban (031) 266-8382 dbn@bviks Empangeni (035) 788-0230 emp@bviks Eastern Cape Port Elizabeth (041) 373-4343 bviec@mwet Western Cape Cape Town (021)527-7000 cpt@bviws	PROVINCE	OFFICE	~		E-MA
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Western Cape Cape Town (021)527-7000 cpt@bvlwe		Empangeni	(035) 788-0230		emp@bvikn.co
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Upington Office
Registration no. 1998/000204/07





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KEIMOES MAGISTRATE'S COURT

PROJECT

DRAWING TITLE

POWER POINTS LAYOUT GROUND FLOOR

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	ENGINEE	R/TECHNOLOGIST	REG. NC	DATE	42
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REFERENCE DRAWINGS

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PROJECT

KEIMOES MAGISTRATE'S COURT

DRAWING TITLE

POWER POINTS LAYOUT FIRST FLOOR

Ricardo Humphreys 2021600626 15 FEB 2021
ENGINEER/TECHNOLOGIST REG. NO. DATE

SCALE 1:100 DRAWN E.Cloete

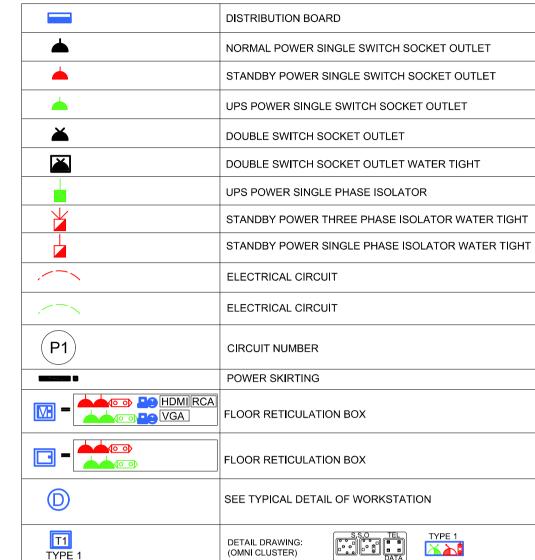
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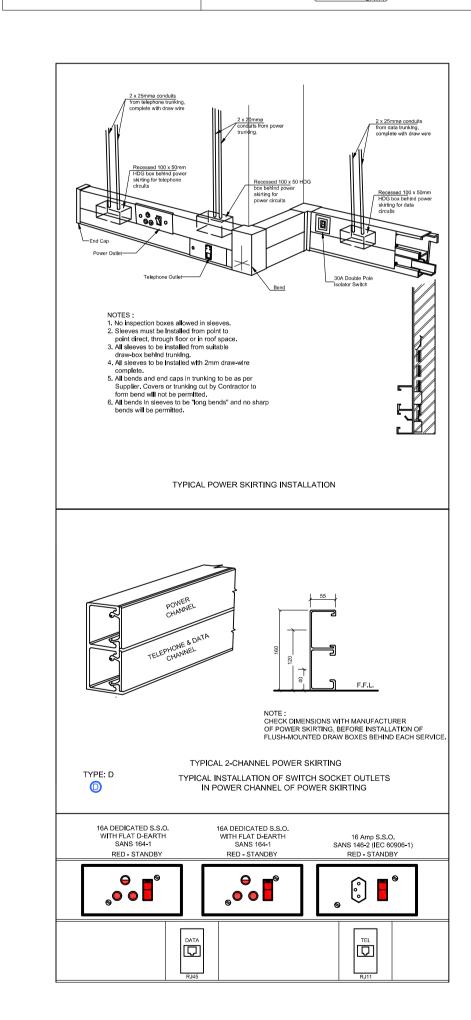
PLAN NUMBER REVISION NO. DATE SAVED

10 Mar 2021

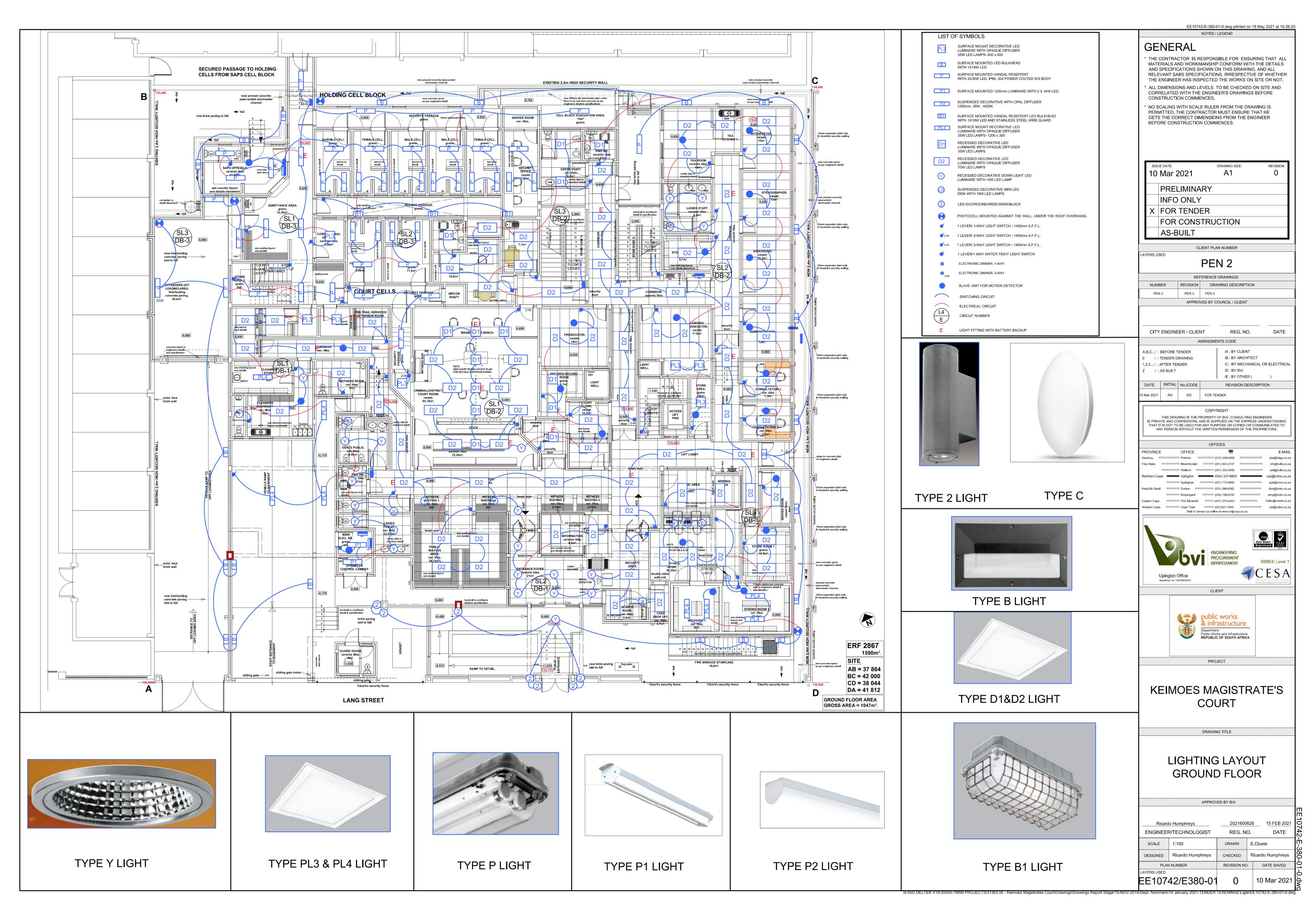
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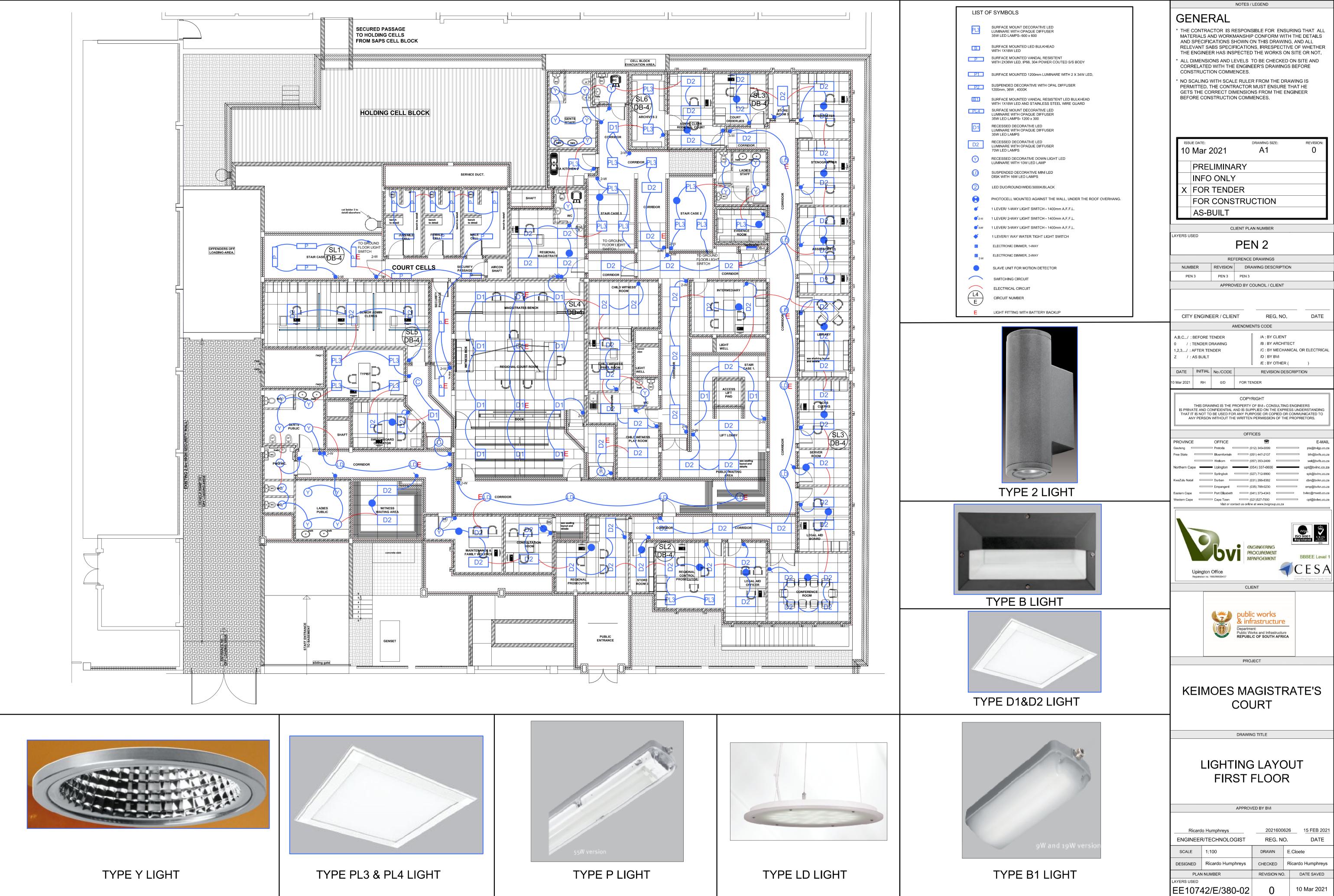
LIST OF SYMBOLS



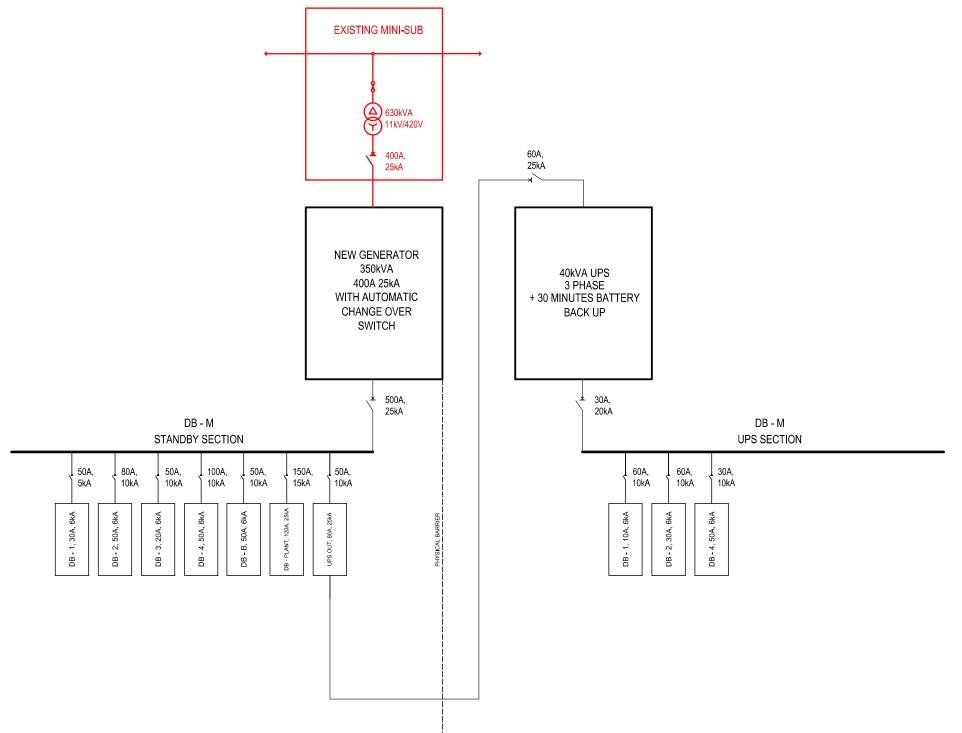


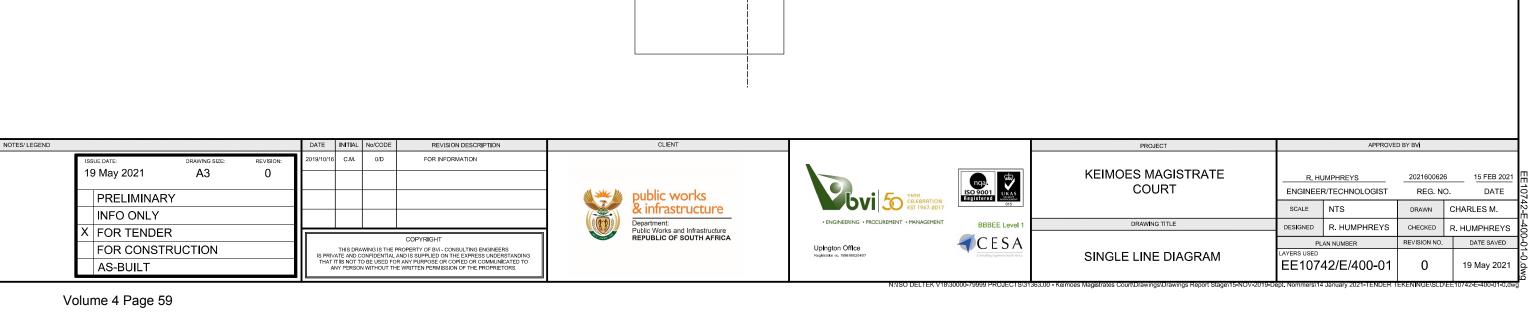






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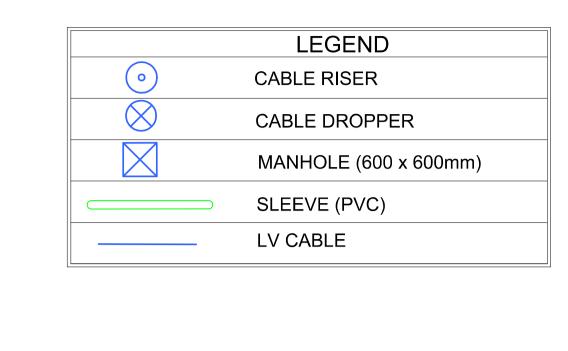
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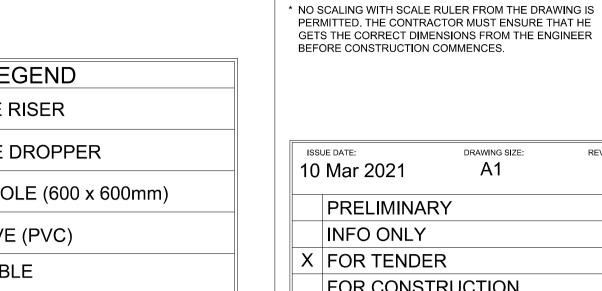
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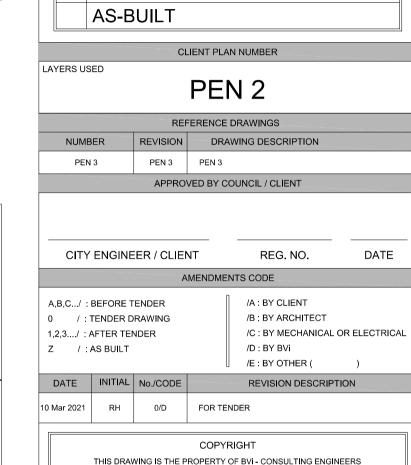
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	LV CABLE SC	HEDULE		
ID	CABLE SIZE	TYPE	LENGTH	DB
1	3x120mm²x4 ; 2x95mm²BCEC	PVC SWA NORMAL	50 m	Mini-Sub Station
2	35mm²x4 ; 25mm Earth	PVC SWA STANDBY	43.7 m	DB2 GF
3	10mm²x4 ; 6mm Insulated Earth	PVC SWA UPS	43.7 m	DB2 GF
4	35mm²x4 ; 10mm Insulated Earth	PVC SWA STANDBY	35.8 m	UPS-IN
<u>(5)</u>	35mm²x4 ; 10mm Insulated Earth	PVC SWA UPS	35.8 m	UPS-OL
6	25mm²x3 ; 16mm Earth	PVC SWA STANDBY	41 m	DB3 GF
7	35mm²x4 ; 25mm Earth	PVC SWA STANDBY	18.4 m	DB4 FF
8	25mm²x4 ; 16mm Insulated Earth	PVC SWA UPS	18.4 m	DB4 FF
9	16mm²x4 ; 10mm Earth	PVC SWA STANDBY	39.9 m	DB-B
10	70mm²x4 ; 35mm Earth	PVC SWA STANDBY	39.9 m	HVAC PLANT
11	6mm²x4 ; 4mm Earth	PVC SWA STANDBY	8.6 m	DB-G





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	───── Welkom □	(057) 353-2499		wel@bvifs.co.
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KEIMOES MAGISTRATE'S COURT

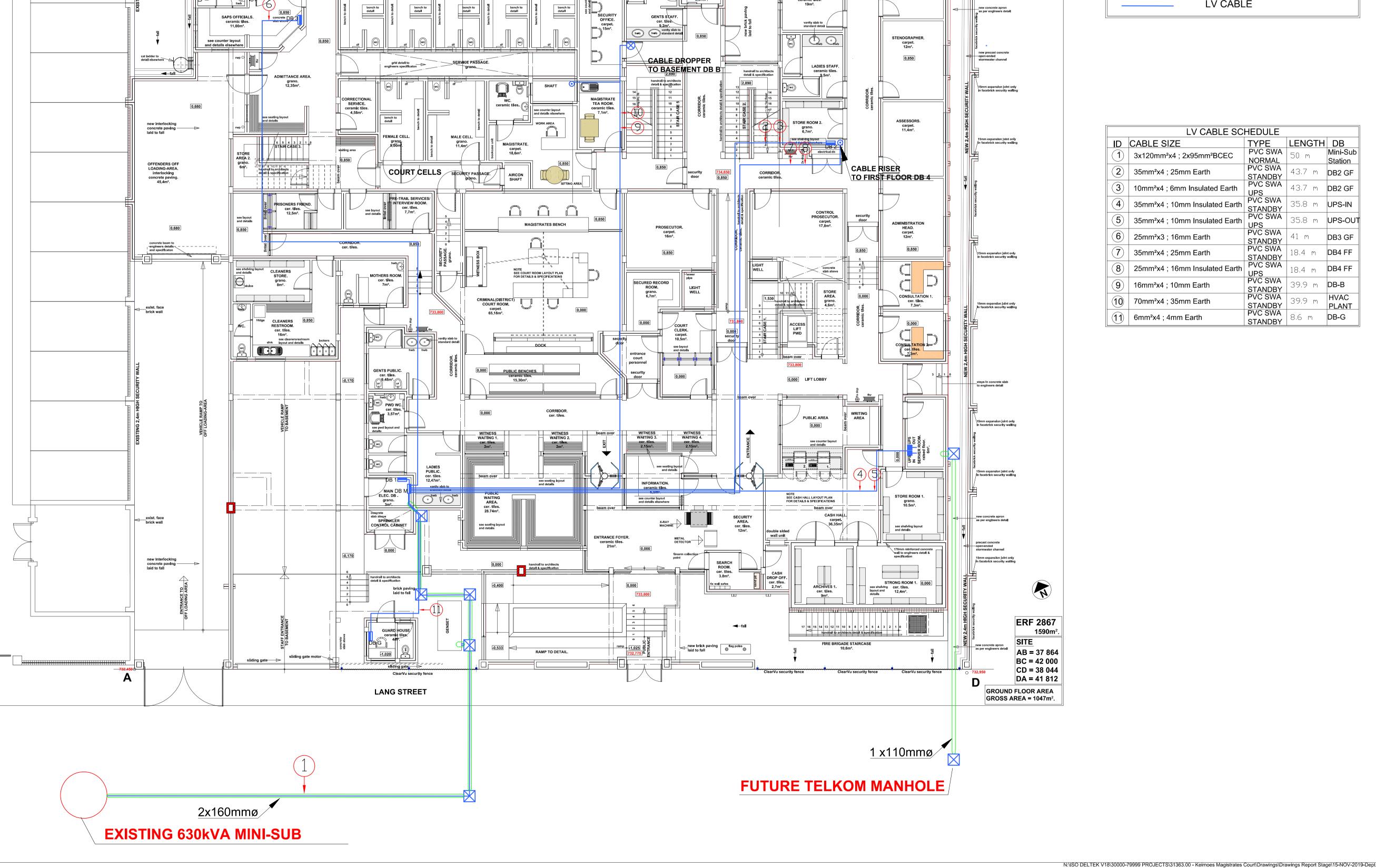
PROJECT

DRAWING TITLE

SLEEVES AND LV LAYOUT **GROUND FLOOR**

		o HumphreysR/TECHNOLOGIST	2021600 REG. N		5 15 FEB 2021 DATE	E10742
	SCALE	1:100	DRAWN		.Cloete	2-E-
	DESIGNED	Ricardo Humphreys	CHECKED	R	icardo Humphreys	402
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SECURED PASSAGE TO HOLDING CELLS FROM SAPS CELL BLOCK

new brick paving to fall

Volume 4 Page 60

new precast concrete

HOLDING CELL BLOCK

grane. 9,00m².

0,850

new concrete apron as per engineers detail

734,650 0,850

15mm expansion joint only In facebrick security walling

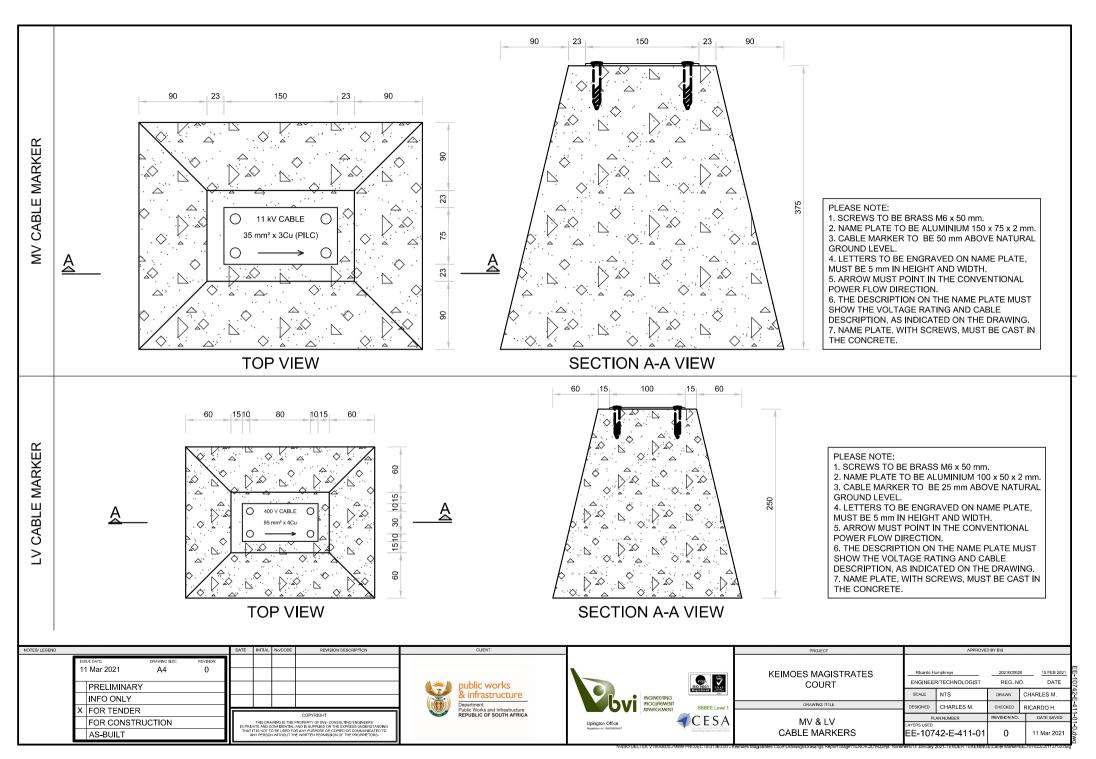
sink

tea kitchen cupboard to detail

EXISTING 2,4m HIGH SECURITY WALL

SERVER ROOM

grano. 9,00m².



CONSTRUCTION COMMENCES.

LIST OF SYMBOLS

— — P9000 CHANNEL FOR GP WIRING x2

---- P9000 FOR TEL&DATA WIRING

---- P9000 FOR ELECTRONICS SECURITY WIRING

— — — CABLE TRAY FOR LV CABLES (300 WIDE)

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PROJECT

KEIMOES MAGISTRATE'S COURT

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Ricard	lo Humphreys	2021600626		5 15 FEB 2021
ENGINEER/TECHNOLOGIST		REG. NO.		DATE
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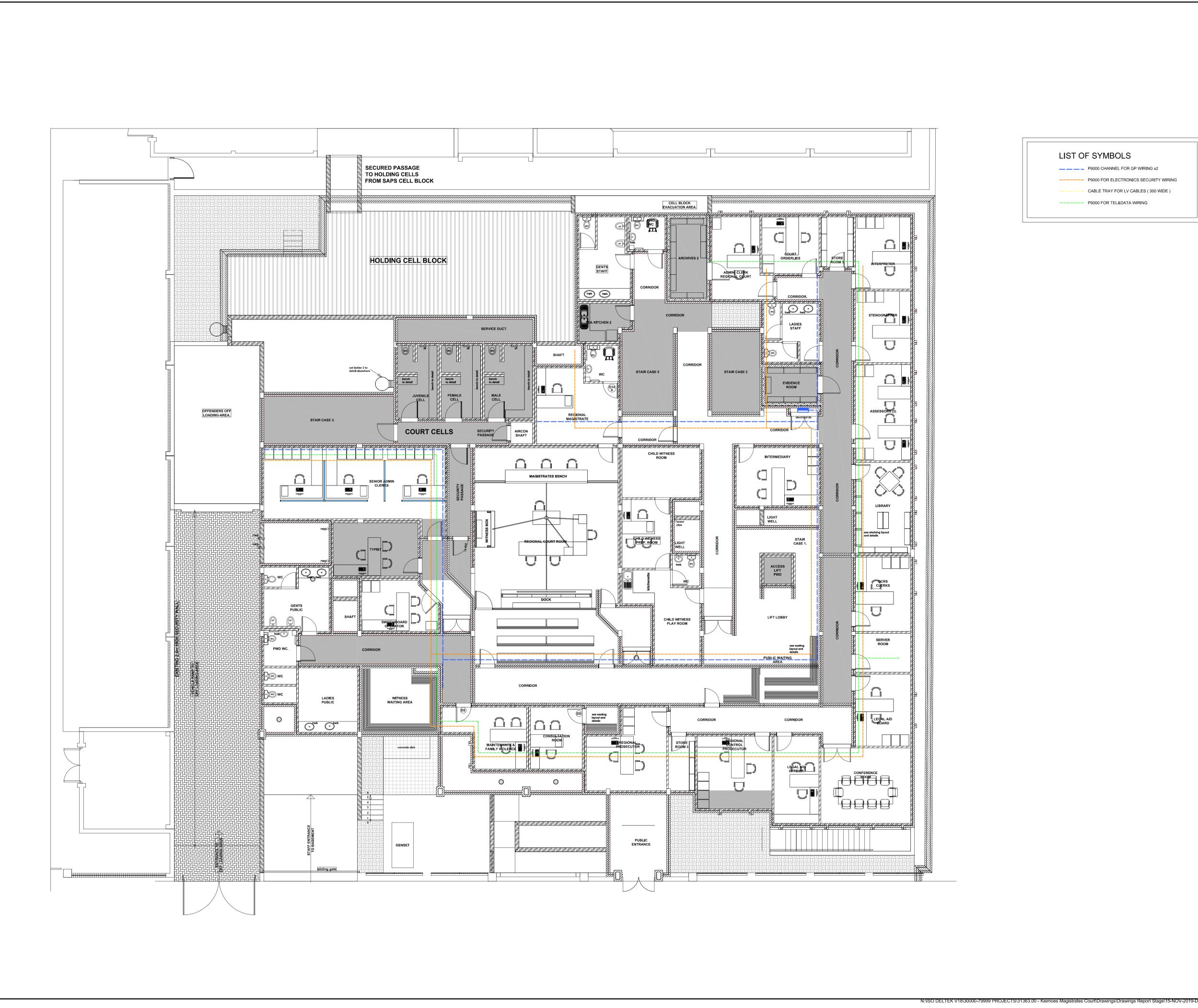
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CHANNEL LAYOUT **GROUND FLOOR**

		lo Humphreys R/TECHNOLOGIST	20216006 REG. NC	
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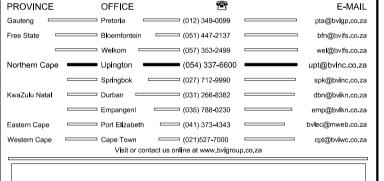
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KEIMOES MAGISTRATE'S COURT

DRAWING TITLE

CABLE TRAY AND CHANNEL LAYOUT FIRST FLOOR

APPROVED BY BVi

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Ricard	lo Humphreys	2021600	626	15 FEB 2021	EE 10/42
ENGINEER	R/TECHNOLOGIST	REG. N	0.	DATE	
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KEIMOES MAGISTRATE COURT

DRAWING TITLE

HVAC POWER POINTS LAYOUT GROUND FLOOR

 Ricardo Humphreys
 2021600626
 15 FEB 2021

 ENGINEER/TECHNOLOGIST
 REG. NO.
 DATE

 SCALE
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 E.Cloete

 DESIGNED
 Ricardo Humprheys
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 Ricardo Humphreys

 PLAN NUMBER
 REVISION NO.
 DATE SAVED

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CITY ENGINEER / CLIENT REG. NO.

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TCESA

Upington Office Registration no. 1998/000204/07 CLIENT

public works & infrastructure

PROJECT

KEIMOES MAGISTRATE COURT

DRAWING TITLE

HVAC POWER POINTS LAYOUT FIRST FLOOR

2021600626 15 FEB 2021 Ricardo Humphreys ENGINEER/TECHNOLOGIST REG. NO. REVISION NO. DATE SAVED EE10742/E/747-02 11 Mar 2021

APPROVED BY BVi



NOTE: ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL POSITIONS OF HVAC ISOLATOR POINTS.

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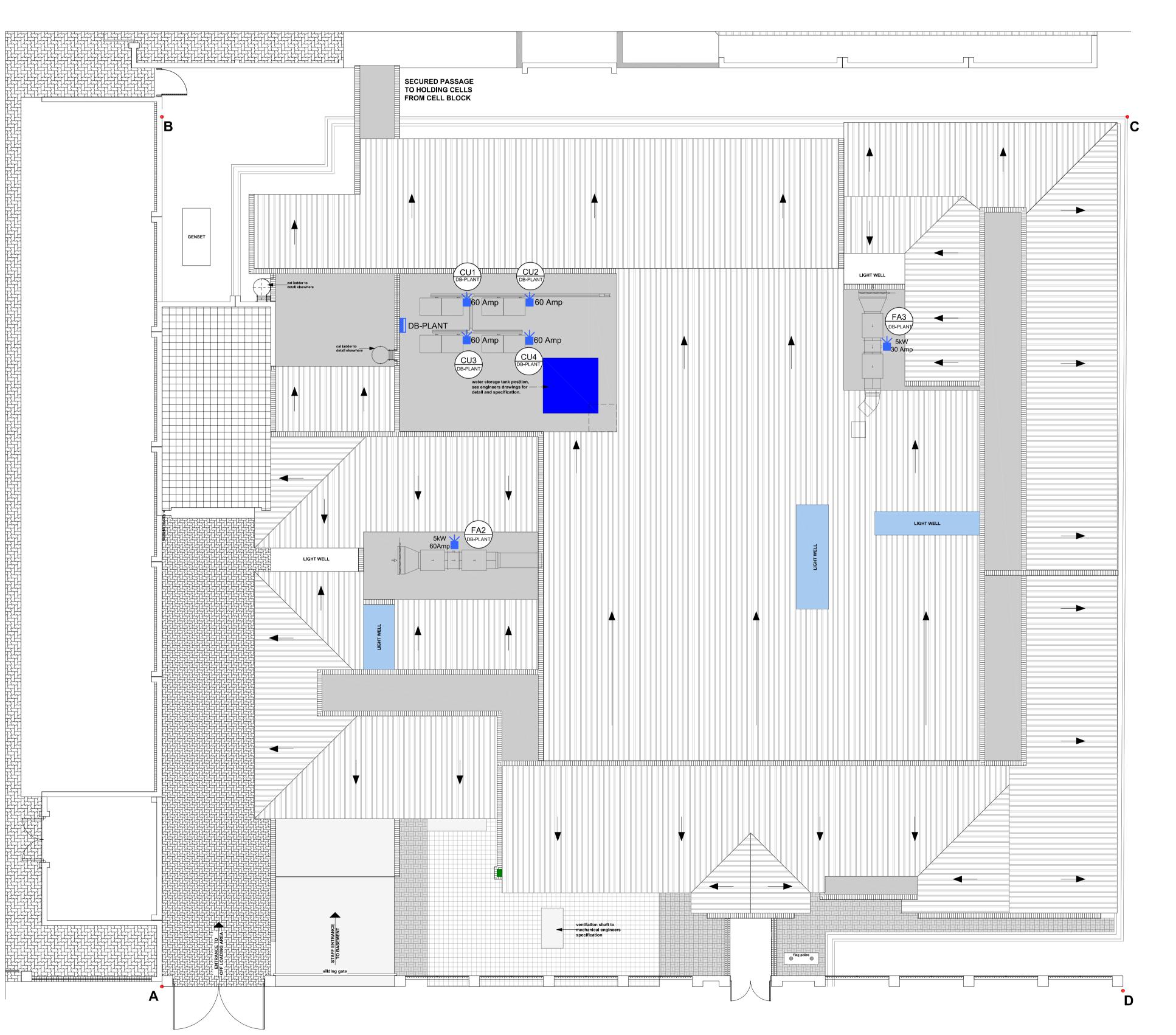
KEIMOES MAGISTRATE COURT

DRAWING TITLE

HVAC POWER POINTS LAYOUT ROOF

APPROVED BY BVi

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ENGINEER	R/TECHNOLOGIST	REG. N	0.	DATE	71/
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LEGEND

NOTE:

SINGLE PHASE ISOLATOR
3 PHASE ISOLATOR; IP65

ELECTRICAL CONTRACTOR TO

CONTRACTOR FOR FINAL

COORDINATE WITH MECHANICAL

POSITIONS OF HVAC ISOLATOR POINTS.

DRAWING SIZE:

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APPROVED BY BVi

2021600626

DRAWN E.Cloete

CHECKED Ricardo Humphreys

REVISION NO. DATE SAVED

REG. NO.

DATE

11 Mar 2021 💆

Ricardo Humphreys

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DESIGNED Ricardo Humphreys PLAN NUMBER

EE10742/E/747-04

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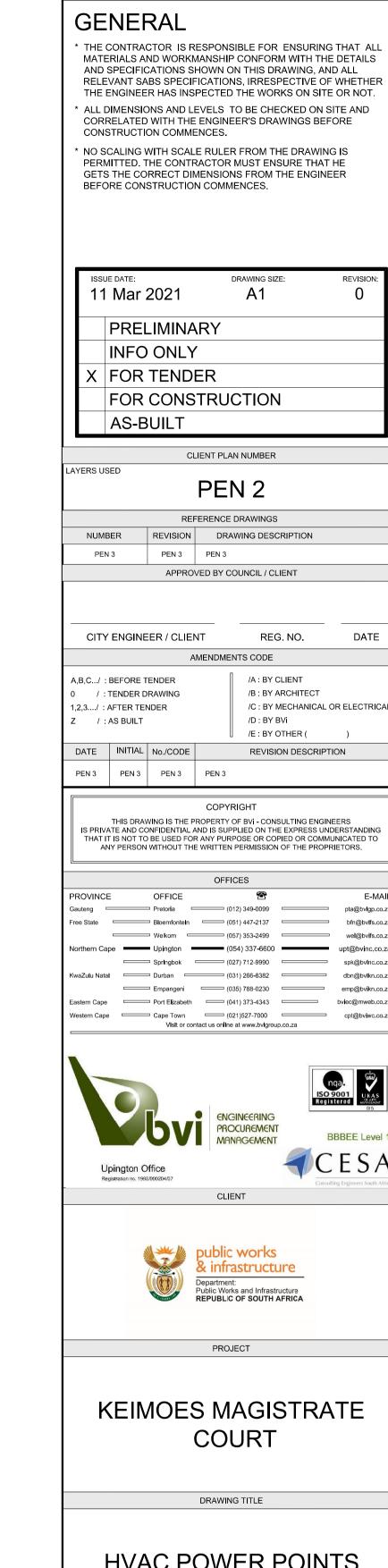
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/E : BY OTHER (

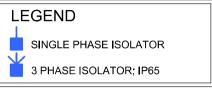
REVISION DESCRIPTION

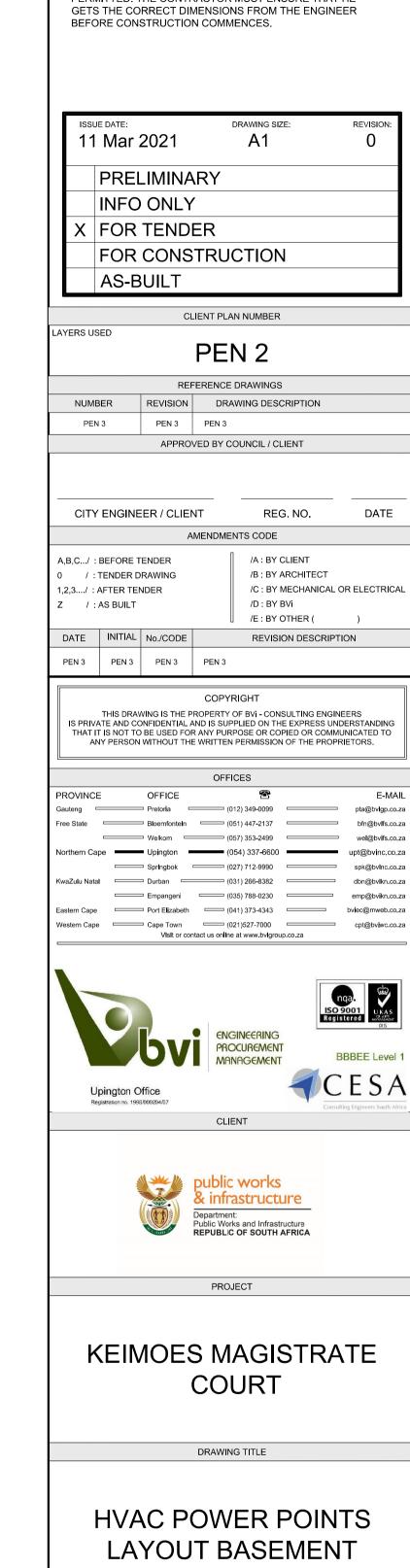
/B : BY ARCHITECT

NOTES / LEGEND



NOTE: ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL POSITIONS OF HVAC ISOLATOR POINTS.





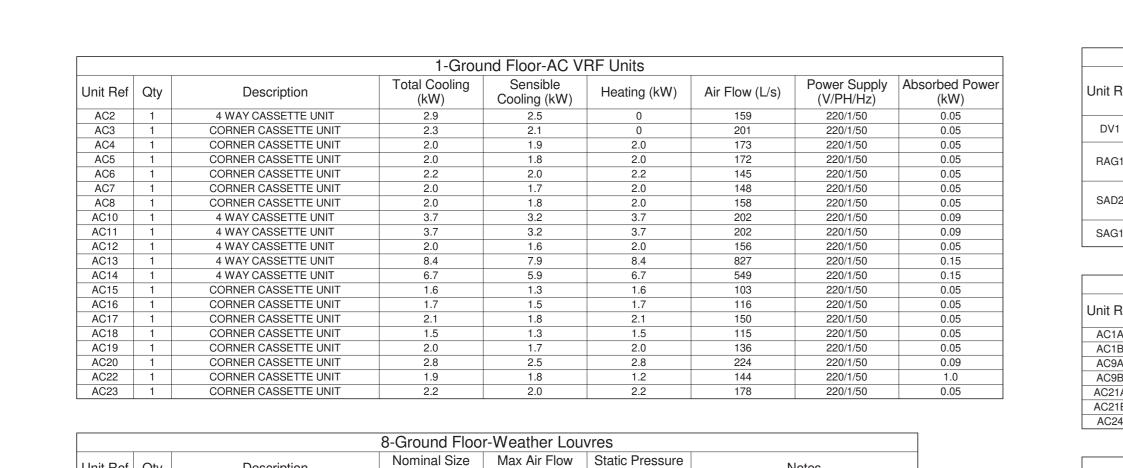
	ventilation openia	ventilation opening ventilation opening	ventilation opening ventilation opening	H				
 ventilation opening opening				MAGISTRATE'S PARKING 1.				
				DOUBLE GARAGE 33,53m².				
				MAGISTRATE'S PARKING 2.				
 				security door				
/				door				
				12 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
		PARKING BAY 1		14 10 10 3 15 16 16 17 17 17 17 17 17	9 15 8 16			
				18 STORE. 19 AREA. 20 grano. 21 3m*. STAIR CASE 5.	7 6 18 5 STORE19 4 AREA 20 grano 3 3 3,2m ³ 21			
	samp.	PARKING BAY 2	▼	21,00m².	2 22 1 23			
rain water channel with grid.	rain water				STAIRCASE 2. FOYER 14,36m².			
		PARKING BAY 3	NOTE: LINE INDICATING STEP IN SLAB ABOVE	PARKING BAY 14				
				sewer pipe from first floor				
		PARKING BAY 4		PARKING BAY 13 PEOPLE WITH DISABILITIES				
					security			
RAMP. grano. 124m².		PARKING BAY 5	BASEMENT PARKING (15 CARS). grano. 638m².	PARKING BAY 12	ACCESS LI FOYER 9,4m².	FT. DW	60Amp	ſ
					9,4m².	DB-		steps in concrete slab to engineers — detail
		PARKING BAY 6		PARKING BAY 11	5	4 3 2 1 0	PUMP & TANK RC 99,6m².	ЮМ
					h	andrail o detall		
		PARKING BAY 7		PARKING BAY 10				
		0				SPRIN	NKLER WATER TANK 6100mm x 2440mm HIGH	
		PARKING BAY 8		PARKING BAY 9		400UIIII X	6100mm X 2440mm nigh	
V		ventilation opening ventilation opening	• •					
						FIRE	BRIGADE STAIRCASE	
STAFF ENTRANCE TO BASEMENT				0 0		18 17 16 15 14 13 12 11 1	0 9 8 7 6 5 4 3 2	
TO B						/		

Mechanical for (KIM03/2023)

HVAC ME 304128-01 to ME 304128-04

Fire Protection ME 304128-05 to ME 304128-07 & -10

Gas suppression ME 304128-09



(mmxmm) (L/s) (Pa)

82 30

250x250

Notes

BIRD MESH

BIRD MESH

Unit Ref Qty

WL4 1

Description

WEATHER LOUVRE-NATURAL

ANODISED, SUCH AS TROX WG

WEATHER LOUVRE-NATURAL

ANODISED, SUCH AS TROX WG

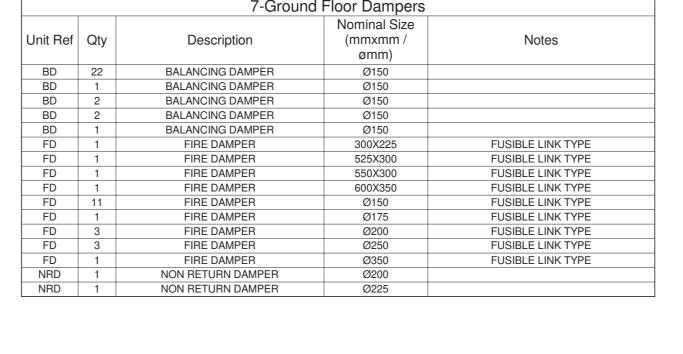
				3-Gro	und Floor-Air	Γerminals			
it Ref	Qty	Description	Nominal Size (mmxmm / ømm)	Flexible / Spigot Size	Max Air Flow (L/s)	Static Pressure (Pa)	Throw (m)	Volume Control Damper (Yes/No)	Notes
DV1	12	EXTRACT AIR DISC VALVE, SUCH AS TROX LVS	ø150	ø150	50	45	-	YES	FIXING COLLAR
AG1	2	RETURN AIR GRILLE, LINEAR BLADE HINGED TYPE C/W FILTER, SUCH AS TROX AR	1200X600	ø350	350	0	-	NO	WITH DUCT PLENUM AND SPIGOT AS SHOWN ON DRAWING
SAD2	8	SUPPLY AIR DIFFUSER, SQUARE FRAME WITH CIRCULAR FLAT PLATE DISC, SUCH AS TROX DCV	600X600 NOMINAL WITH ø200 NECK	ø200	84	10	2.1	NO	INTEGRAL BALANCING DAMPER
AG1	19	SUPPLY AIR GRILLE, ADJUSTABLE BLADE, SUCH AS TROX AT C/W OBD	200X200 NOMINAL WITH ø150 NECK	ø150	60	15	2.1	NO	INTEGRAL BALANCING DAMPER
			O Cround	Floor AC Local	Colit I Inita				

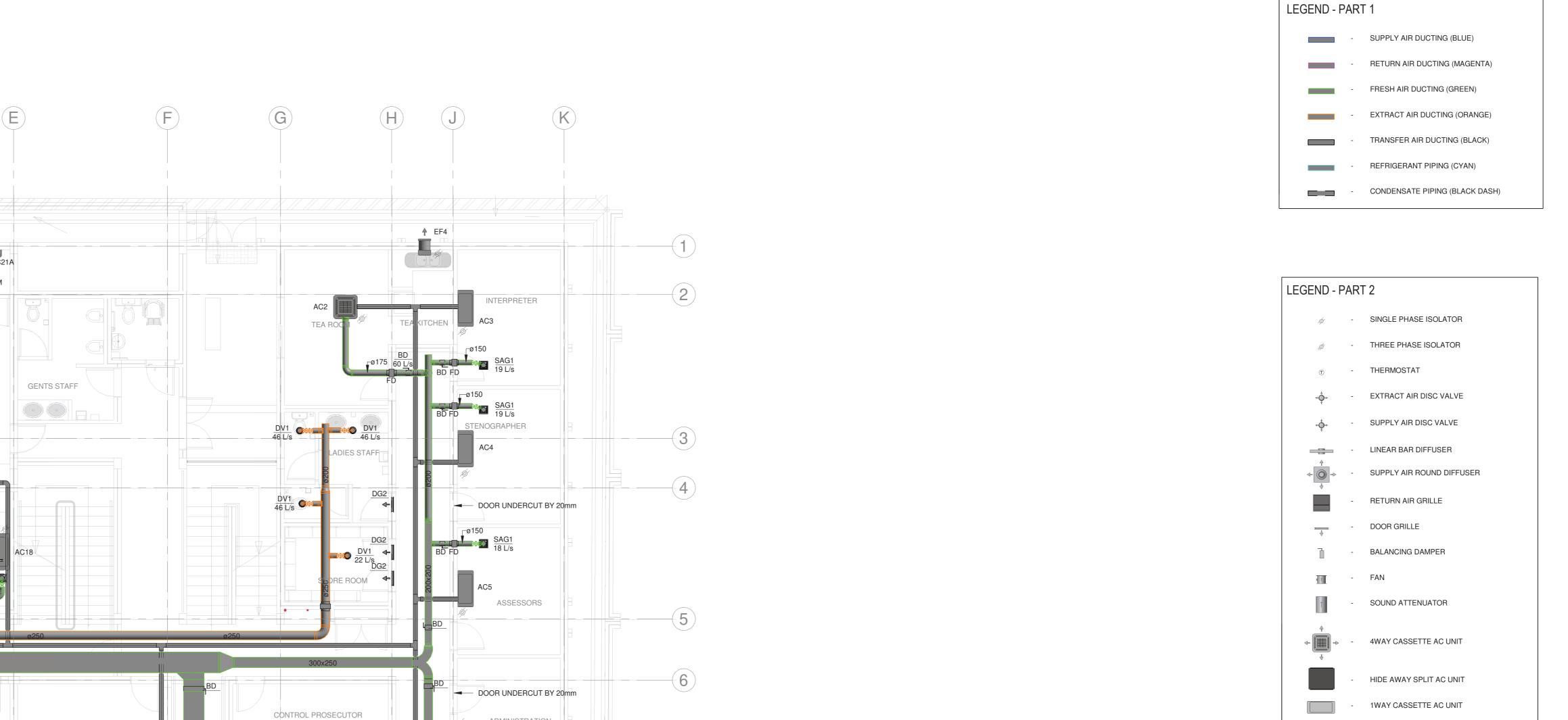
AG1	19	BLADE, SUCH AS TROX AT C/W OBD	WITH Ø150 NECK	ø150	60	15	2.1	NO	INTEGRAL E
			2-Ground	Floor-AC Loca	I Split Units				
it Ref	Qty	Description	Total Cooling (kW)	Sensible Cooling (kW)	Heating (kW)	Air Flow (L/s)	Power Supply (V/PH/Hz)	Absorbed Power (kW)	
C1A	1	CEILING-CONCEALED UNIT	7.1	7.1	8.1	334	220/1/50	3.6	
C1B	1	CEILING-CONCEALED UNIT	7.1	7.1	8.1	334	220/1/50	3.6	
C9A	1	UNDER-CEILING UNIT	9.5	9.4	0	903	220/1/50	4.0	
C9B	1	UNDER-CEILING UNIT	9.5	9.4	0	903	220/1/50	4.0	
C21A	1	HIGH WALL SPLIT UNIT	4.6	4.5	0	399	220/1/50	2.0	
C21B	1	HIGH WALL SPLIT UNIT	4.6	4.5	0	399	220/1/50	2.0	
AC24	1	HIGH WALL SPLIT UNIT	1.4	1.3	0.8	121	220/1/50	0.05	
			9-Ground	l Door Grilles					
it Ref	Qty	Description	Nominal Size (mmxmm)	Max Air Flow (L/s)	Static Pressure (Pa)	N	lotes		
DG1	1	DOOR GRILLE, SUCH AS TROX AGS	300X300	52	20	COLOUR TO AR	CHITECT APPROVAL		

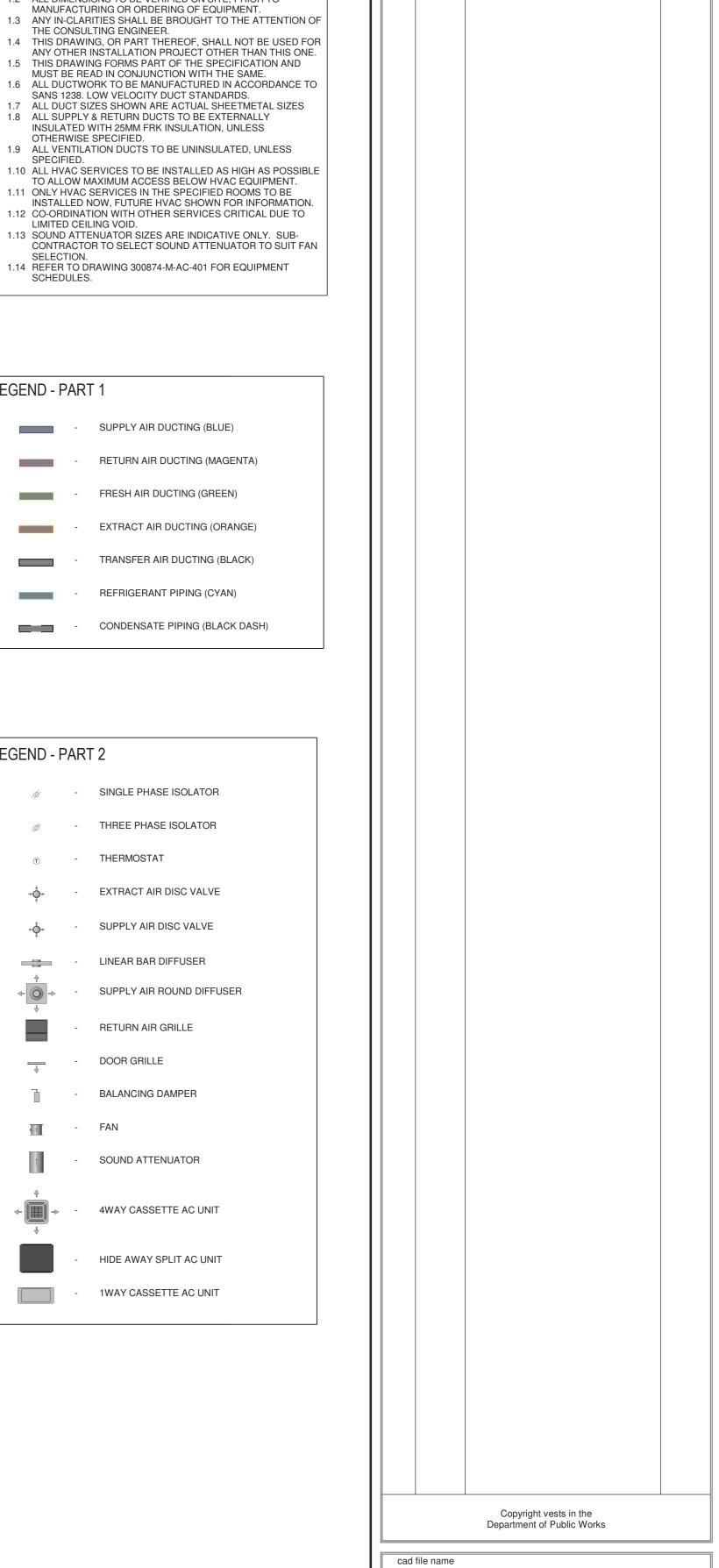
DG2 14 DOOR GRILLE, SUCH AS TROX AGS 400X400 219 25 COLOUR TO ARCHITECT APPROVAL

	4-Ground Floor-Fans										
Unit Ref	Qty	Description	Nominal Size (ømm)	Air Flow (L/s)	Static Pressure (Pa)	Power Supply (V/PH/Hz)	Absorbed Power (kW)	Notes			
EF2	1	MIXED FLOW, LOW NOISE SUCH AS S&P TD SILENT	315	246	150	220/1/50	0.2	Switched via timer			
EF3	1	MIXED FLOW, LOW NOISE SUCH AS S&P TD SILENT	200	82	150	220/1/50	0.07	Switched via timer			
EF4	1	WALL MOUNTED, LOW NOISE SUCH AS S&P SILENT SERIES 200	200	50	35	220/1/50	0.04	Switched via timer			
FA3	1	WALL MOUNTED, LOW NOISE SUCH AS S&P SILENT SERIES 200	200	8	20	220/1/50	0.04	Switched via timer			
FA4	1	WALL MOUNTED, LOW NOISE SUCH AS S&P SILENT SERIES 200	200	23	25	220/1/50	0.04	Switched via timer			

	7-Ground Floor Dampers										
Unit Ref	Qty	Description	Nominal Size (mmxmm / ømm)	Notes							
BD	22	BALANCING DAMPER	Ø150								
BD	1	BALANCING DAMPER	Ø150								
BD	2	BALANCING DAMPER	Ø150								
BD	2	BALANCING DAMPER	Ø150								
BD	1	BALANCING DAMPER	Ø150								
FD	1	FIRE DAMPER	300X225	FUSIBLE LINK TYPE							
FD	1	FIRE DAMPER	525X300	FUSIBLE LINK TYPE							
FD	1	FIRE DAMPER	550X300	FUSIBLE LINK TYPE							
FD	1	FIRE DAMPER	600X350	FUSIBLE LINK TYPE							
FD	11	FIRE DAMPER	Ø150	FUSIBLE LINK TYPE							
FD	1	FIRE DAMPER	Ø175	FUSIBLE LINK TYPE							
FD	3	FIRE DAMPER	Ø200	FUSIBLE LINK TYPE							
FD	3	FIRE DAMPER	Ø250	FUSIBLE LINK TYPE							
FD	1	FIRE DAMPER	Ø350	FUSIBLE LINK TYPE							
NRD	1	NON RETURN DAMPER	Ø200								
NRD	1	NON RETURN DAMPER	Ø225								







D.P.W

D.P.W

AMENDMENT

AMENDMENT ISSUED FOR APPROVAL

C | 20/11/25 | ISSUED FOR SKETCH PLAN NM

D | 23/03/21 | ISSUED FOR CLIENT APPROVAL | NM

E 21/05/21 ISSUED FOR TENDER NM

B |20/01/20 | ISSUED FOR APPROVAL

No DATE

NOTES:

1.1 DO NOT SCALE THE DRAWINGS.1.2 ALL DIMENSIONS TO BE VERIFIED ON SITE, PRIOR TO

MUST BE READ IN CONJUNCTION WITH THE SAME.

INSULATED WITH 25MM FRK INSULATION, UNLESS

1.14 REFER TO DRAWING 300874-M-AC-401 FOR EQUIPMENT

SANS 1238. LOW VELOCITY DUCT STANDARDS.

1.8 ALL SUPPLY & RETURN DUCTS TO BE EXTERNALLY

MANUFACTURING OR ORDERING OF EQUIPMENT.

THE CONSULTING ENGINEER.

OTHERWISE SPECIFIED.

LIMITED CEILING VOID.

SPECIFIED.

SCHEDULES.

A 18/10/19





MECHANICAL

KEIMOES MAGISTRATE OFFICE

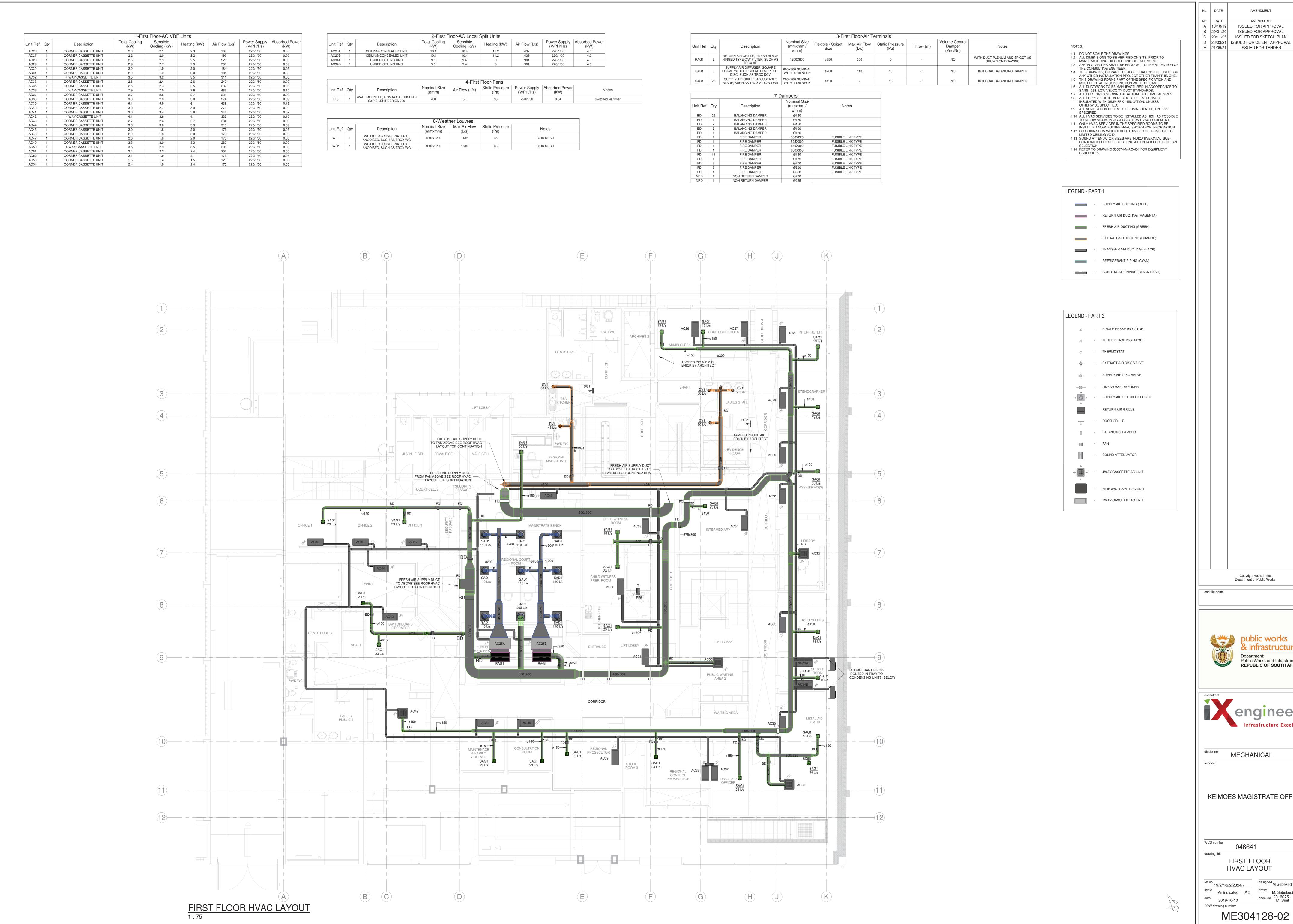
drawing title

GROUND FLOOR HVAC LAYOUT

date 2019-10-10 DPW drawing number

ME304128-01

						↑ EF4
			ACZIBJ JA	AC21A		
			ERVER ROC		AC2 TEA ROO T	INTERPRETER AC3
		JUVENILE CELL JUVENILE CELL MALE C	OFFICE	Y	Ø175 60 <u>I</u>	D
	SAPS OFFICIAL AC22			GENTS STAFF	FD	Ø150 SAG1 19 L/s
-	FA4		SAG1 30 L/s BD AC20		DV1 46 L/s LADIES STAFF	AC4
	ADMITTANCE AREA		DV2 58 L/s		DV1 46 L/s DG2	DOOR UNDERCUT BY 20mm
			DG1	AC18	DG2 DV1 22 L/s DG2	© 150 SAG1 18 L/s
		JUVENILE CELL FEMALE CELL	MALE CELLOS AC19 BD BD BD BD BD SAG1		Sp)RE ROOM	AC5 ASSESSORS
			30 L/s I BD	ø250	ø250 N	L BD
		COURT CELLS DUCT TO ROOF ABOUT TO ROOF ABOU	SAD2 SAD2 SAD2 84 L/s 84 L/s		300x250	DOOR UNDERCUT BY 20mm
	SAG1 20 L/s	SAG1 12 Us	ø200 MAGISTRATE BENC	AC16	© SAG1 BD SAG1 29 L/s	ADMINISTRATION HEAD AC6
	DG2	CLEANERS RESTROUM 30 WS	9200 9200	PROSECUTOR SAG1 26 L/s PROSECUTOR BD Lø150 FD	AC17	SAG1 23 L/s
	WL3 246 L/s SA4 SA4 DV1 50 L/s DG2 DG2	D DV1 50 L/s — Ø175	SAD2 84 L/s 84 L/s 84 L/s 8200 6200 6200 6200 6200 6200 6200			AC7
	NRD NRD AC23	50 L/s ♣ DG2	0000 000 000 000 000 000 000 000 000 0	→ DG2 Ø150	STORE STORE	BD FD 19150 CONSULTATION 2
	SAG1 26 L/s		SAD2 84 L/s SO SAG2 210 L/s SAD2 84 L/s SAD2 84 L/s SAD2 84 L/s SAD2	COURT CL SAC1 23 L/s FD	FD	AC8
		GENTS PUBLIC	AC1A AC1B	AC15	250x300	SAG1 BD FD ø150
			RAG1 RAG1 O L/s		LIFT LOBBY	250×2
	E RAMP	DG2	ÿ175 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	525x300 BD BD FD	BD AC11	AC9A SAG1 BD FD Ø150 FD SERVER RUSM
	VEHICL	LADIES PUBLIC	WITNESS WAITING 1 WITNESS WAITING 2	WITNESS WAITING 3 WITNESS WAITING 4	PUBLIC AREA _{Ø150} 30 I	AC9B
		MAIN ELEC. DB	PUBLIC WAITING AREA	SECURITY/RECORMATION AC12 BD 15 L/s	CASH HALL AC10	₩ <u>L</u> 4
<u>)</u> ————————————————————————————————————			AC14 8200 FD FD	Ø 150 BD 45 L/s	ø150 <u>B</u>	STORE ROOM FF3
				FOYER		DV1 41 L/s
<u></u>				AC13	WOOW HOUSE OF THE PROPERTY OF	TAMPER PROOF AIR BRICK BY ARCHITECT DV1 24 L/s
				SAG1 15 L/s	BD SAG1	24 L/s SPRONG ROOM
<u> </u>						
		FA3 AC24				
	A) (C) (D)		E	G H	J
	GROUND FLOOR HVAC LAYOUT 1:75					



D.P.W AMENDMENT D.P.W AMENDMENT ISSUED FOR APPROVAL NM B 20/01/20 ISSUED FOR APPROVAL C | 20/11/25 | ISSUED FOR SKETCH PLAN | NM D | 23/03/21 | ISSUED FOR CLIENT APPROVAL | NM E 21/05/21 ISSUED FOR TENDER Copyright vests in the Department of Public Works Public Works and Infrastructure REPUBLIC OF SOUTH AFRICA MECHANICAL KEIMOES MAGISTRATE OFFICE

Volume 4 Page 70

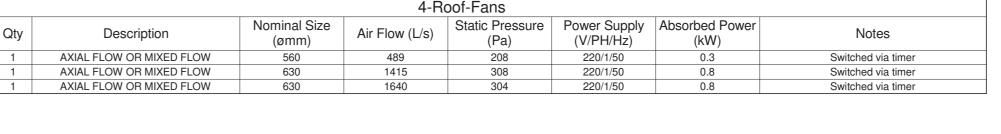
			1-1	Roof-AC VRF L	Jnits			
Unit Ref	Qty	Description	Total Cooling (kW)	Sensible Cooling (kW)	Heating (kW)	Air Flow (L/s)	Power Supply (V/PH/Hz)	Absorbed Power (kW)
CU1	1	VRV HEAT RECOVERY OUTDOOR CONDENSING UNIT TYPE-R410A, COMPRISING OF TWO UNIT MODULES.	40	40			400/3/50	15
CU2	1	VRV HEAT RECOVERY OUTDOOR CONDENSING UNIT TYPE-R410A, COMPRISING OF TWO UNIT MODULES.	40	40			400/3/50	15
CU3	1	VRV HEAT RECOVERY OUTDOOR CONDENSING UNIT TYPE-R410A, COMPRISING OF TWO UNIT MODULES.	40	40			400/3/50	15

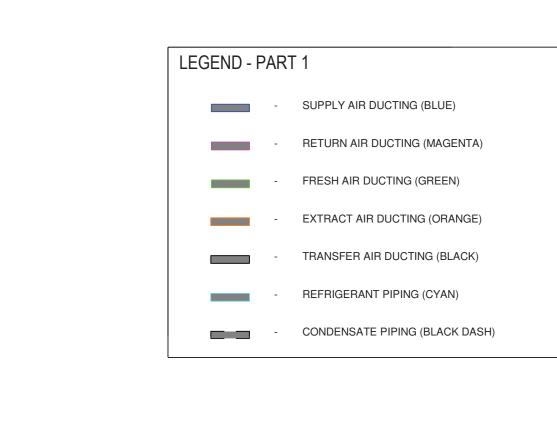
	2-Roof-AC Local Split Outdoor Units									
Unit Ref	Qty	Description	Total Cooling (kW)	Sensible Cooling (kW)	Heating (kW)	Air Flow (L/s)	Power Supply (V/PH/Hz)	Absorbed Power (kW)		
AC1A	1	CEILING-CONCEALED OUTDOOR UNIT	7.1	7.1	8.1		220/1/50	4.0		
AC1B	1	CEILING-CONCEALED OUTDOOR UNIT	7.1	7.1	8.1		220/1/50	4.0		
AC25A	1	CEILING-CONCEALED OUTDOOR UNIT	10.4	10.4	11.2		220/1/50	4.5		
AC25B	1	CEILING-CONCEALED OUTDOOR UNIT	10.4	10.4	11.2		220/1/50	4.5		

	8-Weather Louvres									
Unit Ref	Qty	Description	Nominal Size (mmxmm)	Max Air Flow (L/s)	Static Pressure (Pa)	Notes				
WL1	1	WEATHER LOUVRE-NATURAL ANODISED, SUCH AS TROX WG	1200x1200	1415	35	BIRD MESH				
WL2	1	WEATHER LOUVRE-NATURAL ANODISED, SUCH AS TROX WG	1200x1200	1640	35	BIRD MESH				

	6-Sound Attenuators										
Unit Ref	Qty	Description	Nominal Size (mmxmm / ømm)	Length (mm)	Air Flow (L/s)	Static Pressure (Pa)					
SA1	2	SOUND ATTENUATOR	630	1.5D	1415	20					
SA2	2	SOUND ATTENUATOR	630	1.5D	1640	20					
SA3	2	SOUND ATTENUATOR	560	1.5D	489	20					

	4-Roof-Fans										
Unit Ref	Qty	Description	Nominal Size (ømm)	Air Flow (L/s)	Static Pressure (Pa)	Power Supply (V/PH/Hz)	Absorbed Power (kW)	Notes			
EF1	1	AXIAL FLOW OR MIXED FLOW	560	489	208	220/1/50	0.3	Switched via timer			
FA1	1	AXIAL FLOW OR MIXED FLOW	630	1415	308	220/1/50	0.8	Switched via timer			
FA2	1	AXIAL FLOW OR MIXED FLOW	630	1640	304	220/1/50	0.8	Switched via timer			





NOTES:

1.1 DO NOT SCALE THE DRAWINGS.
1.2 ALL DIMENSIONS TO BE VERIFIED ON SITE, PRIOR TO MANUFACTURING OR ORDERING OF EQUIPMENT.

THE CONSULTING ENGINEER.

OTHERWISE SPECIFIED.

LIMITED CEILING VOID.

SCHEDULES.

1.3 ANY IN-CLARITIES SHALL BE BROUGHT TO THE ATTENTION OF

1.4 THIS DRAWING, OR PART THEREOF, SHALL NOT BE USED FOR ANY OTHER INSTALLATION PROJECT OTHER THAN THIS ONE.

1.5 THIS DRAWING FORMS PART OF THE SPECIFICATION AND MUST BE READ IN CONJUNCTION WITH THE SAME. 1.6 ALL DUCTWORK TO BE MANUFACTURED IN ACCORDANCE TO SANS 1238. LOW VELOCITY DUCT STANDARDS. 1.7 ALL DUCT SIZES SHOWN ARE ACTUAL SHEETMETAL SIZES

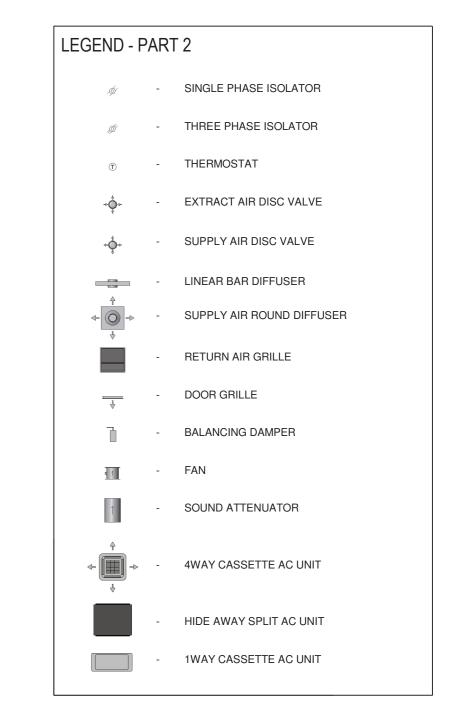
1.8 ALL SUPPLY & RETURN DUCTS TO BE EXTERNALLY INSULATED WITH 25MM FRK INSULATION, UNLESS

1.9 ALL VENTILATION DUCTS TO BE UNINSULATED, UNLESS SPECIFIED.

1.10 ALL HVAC SERVICES TO BE INSTALLED AS HIGH AS POSSIBLE TO ALLOW MAXIMUM ACCESS BELOW HVAC EQUIPMENT. 1.11 ONLY HVAC SERVICES IN THE SPECIFIED ROOMS TO BE INSTALLED NOW, FUTURE HVAC SHOWN FOR INFORMATION. 1.12 CO-ORDINATION WITH OTHER SERVICES CRITICAL DUE TO

1.13 SOUND ATTENUATOR SIZES ARE INDICATIVE ONLY. SUB-CONTRACTOR TO SELECT SOUND ATTENUATOR TO SUIT FAN

1.14 REFER TO DRAWING 300874-M-AC-401 FOR EQUIPMENT



Public Works and Infrastructure REPUBLIC OF SOUTH AFRICA

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D.P.W

AMENDMENT

AMENDMENT ISSUED FOR APPROVAL

C | 20/11/25 | ISSUED FOR SKETCH PLAN | NM D | 23/03/21 | ISSUED FOR CLIENT APPROVAL | NM

B |20/01/20 | ISSUED FOR APPROVAL

E 21/05/21 ISSUED FOR TENDER

A 18/10/19



MECHANICAL

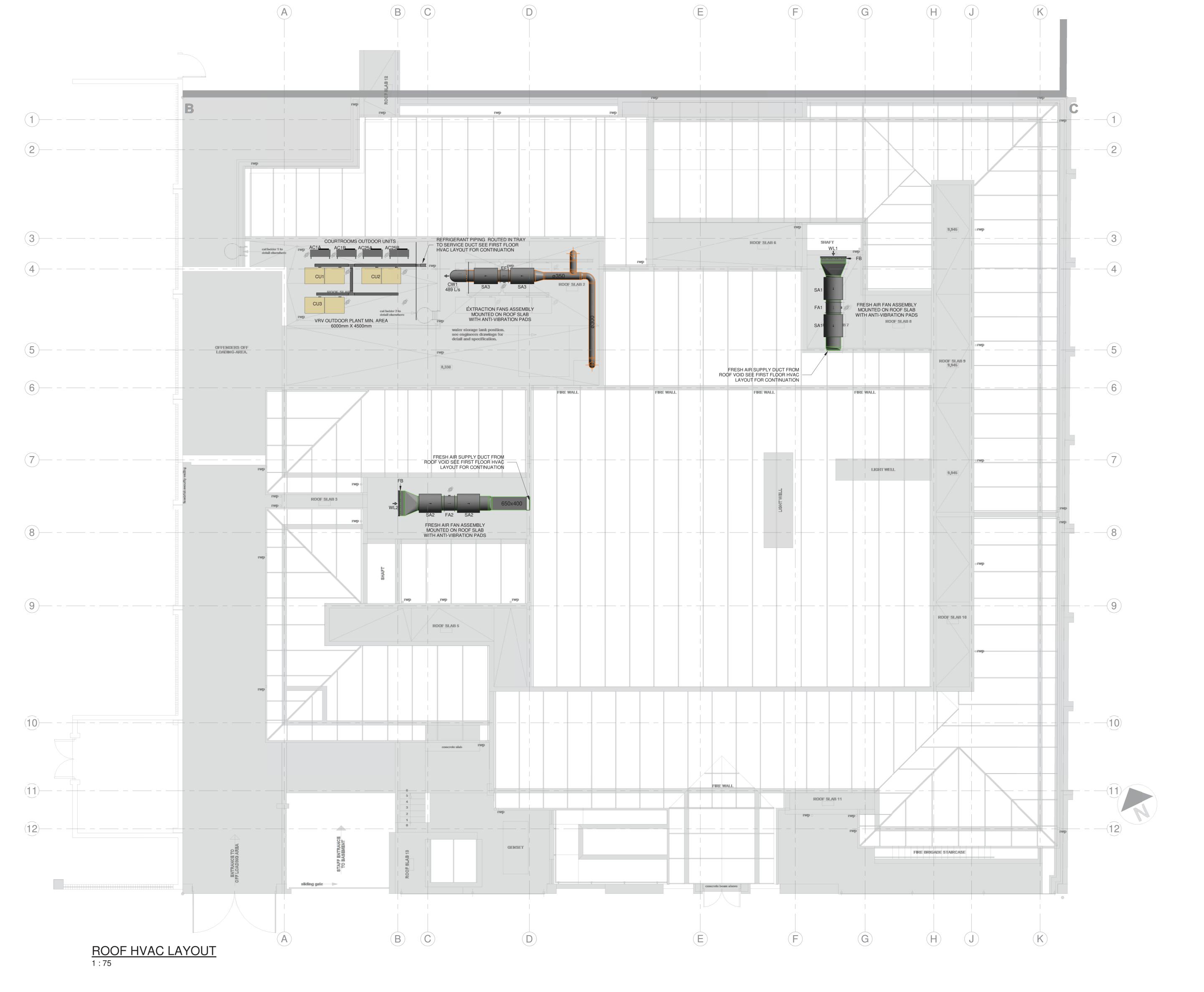
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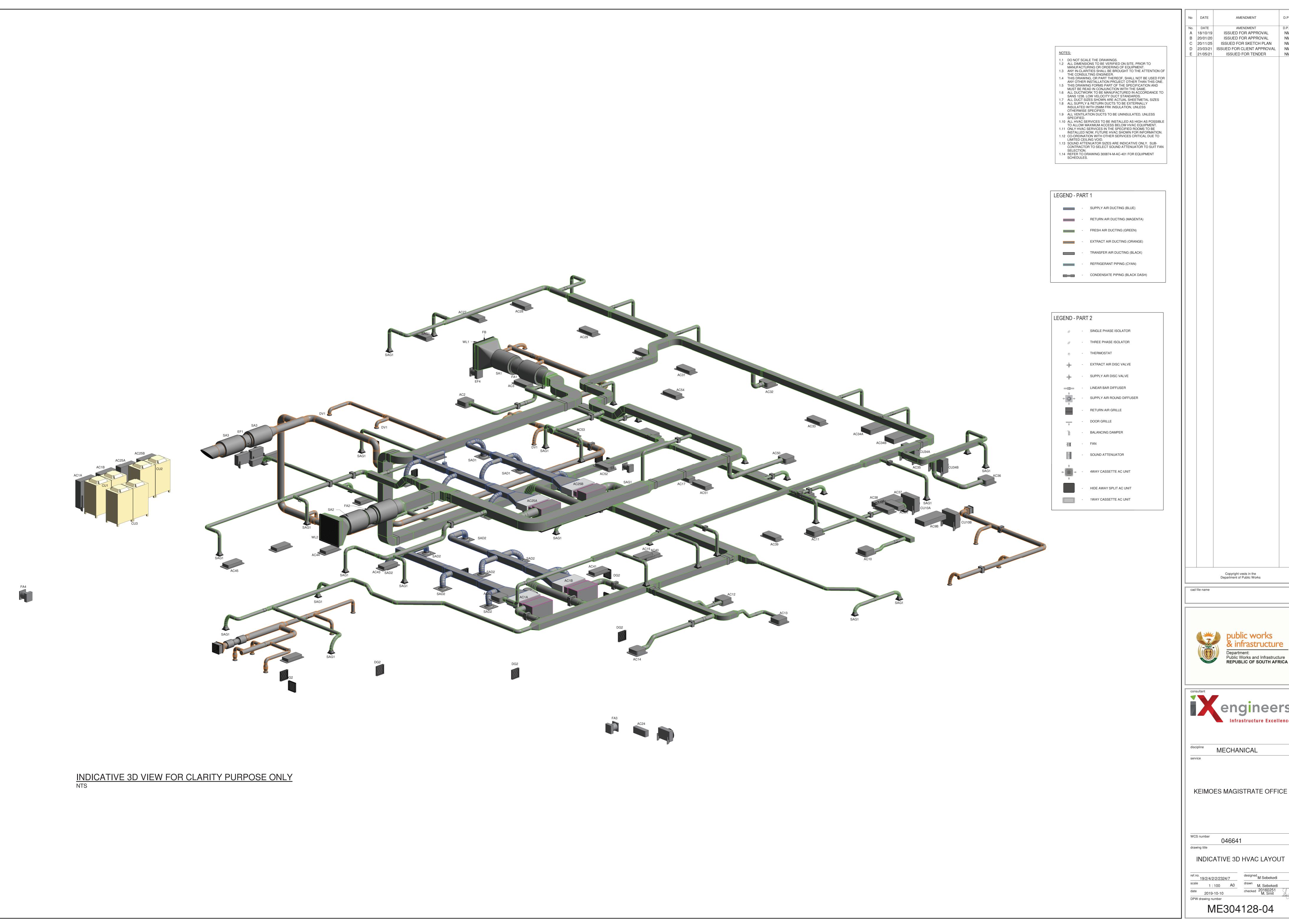
drawing title

ROOF HVAC LAYOUT

date 2019-10-10

DPW drawing number



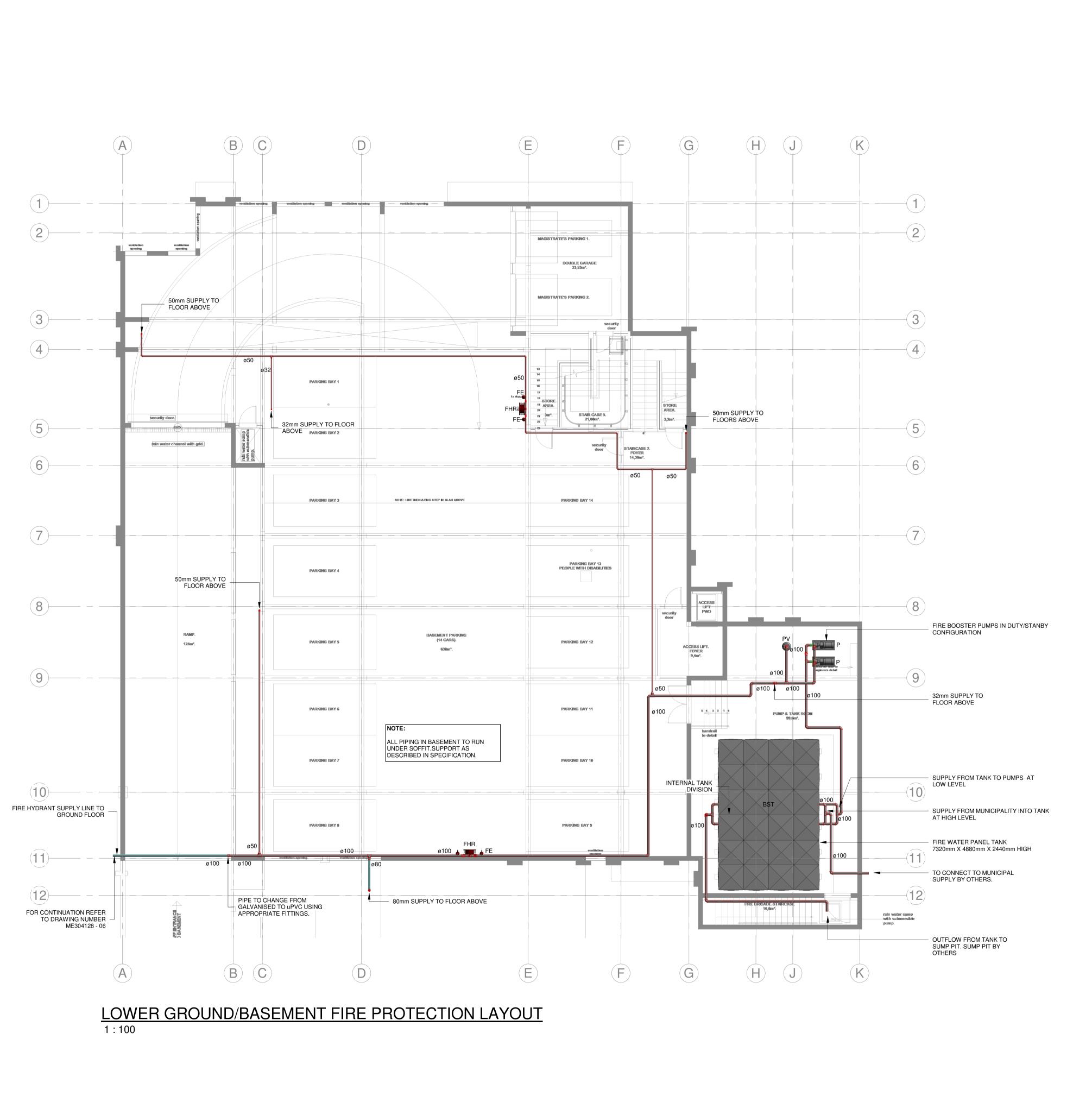


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D.P.W A 18/10/19 ISSUED FOR APPROVAL NM B 20/01/20 ISSUED FOR APPROVAL NM C | 20/11/25 | ISSUED FOR SKETCH PLAN NM D | 23/03/21 | ISSUED FOR CLIENT APPROVAL | NM E 21/05/21 ISSUED FOR TENDER NM





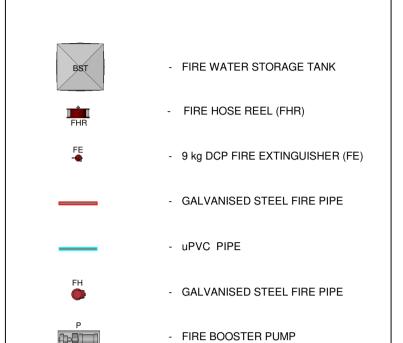


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- SPECIFIED.

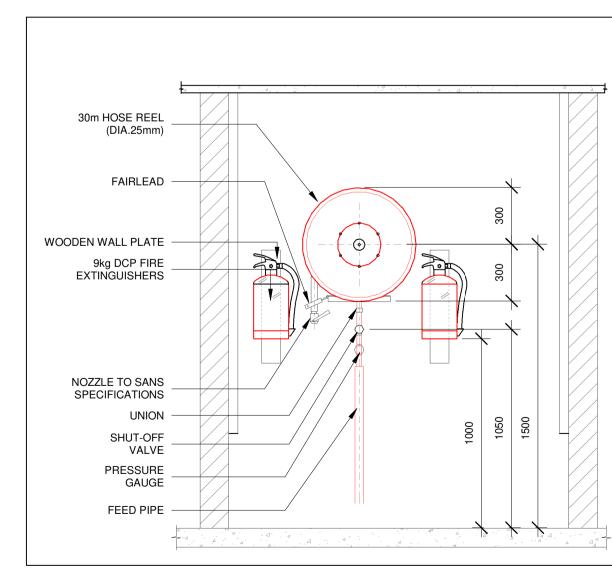
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 CONTRACTOR/INSTALLER DURING THE CONSTRUCTION
 STAGE, TO DEVELOP ASSOCIATED WORKING AND SHOP
 DRAWINGS. THIS DRAWING IS NOT INTENDED TO BE USED
 FOR MANUFACTURING/INSTALLATION PURPOSES, BUT TO
 REFLECT THE DETAIL DESIGN INTENT.
- 1.3 HOSE REELS TO CONFORM TO SANS 543 AND BEAR THE SANS MARK.
- 1.4 FIRE EXTINGUISHERS TO CONFORM TO SANS 1910.
 EXTINGUISHERS TO BEAR THE SANS MARK AND BE INSTALLED
- 1.5 FIRE HYDRANTS TO CONFORM TO SANS 1128-1 AND SANS 10105-2.

LEGEND



FIRE PROTECTION BASEMENT						
REF	QTY	DESCRIPTION				
BST	1	82 000L Usable Volume Fire Water Storage Tank				
FE	4	9kg DCP Fire Extinguisher				
FHR	2	30m Fire Hose Reel				
Р	2	21 l/s @ 400kPa Fire booster pump c/w control panel				
PV	1	240 L Pressure Vessel				

- PRESSURE VESSEL



TYPICAL FIRE CABINET DETAIL

NTS





No
No.
Α
В
C
D
E

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cad file name





discipline MECHANICAL

service

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number 046641

LOWER GROUND/BASEMENT - FIRE PROTECTION

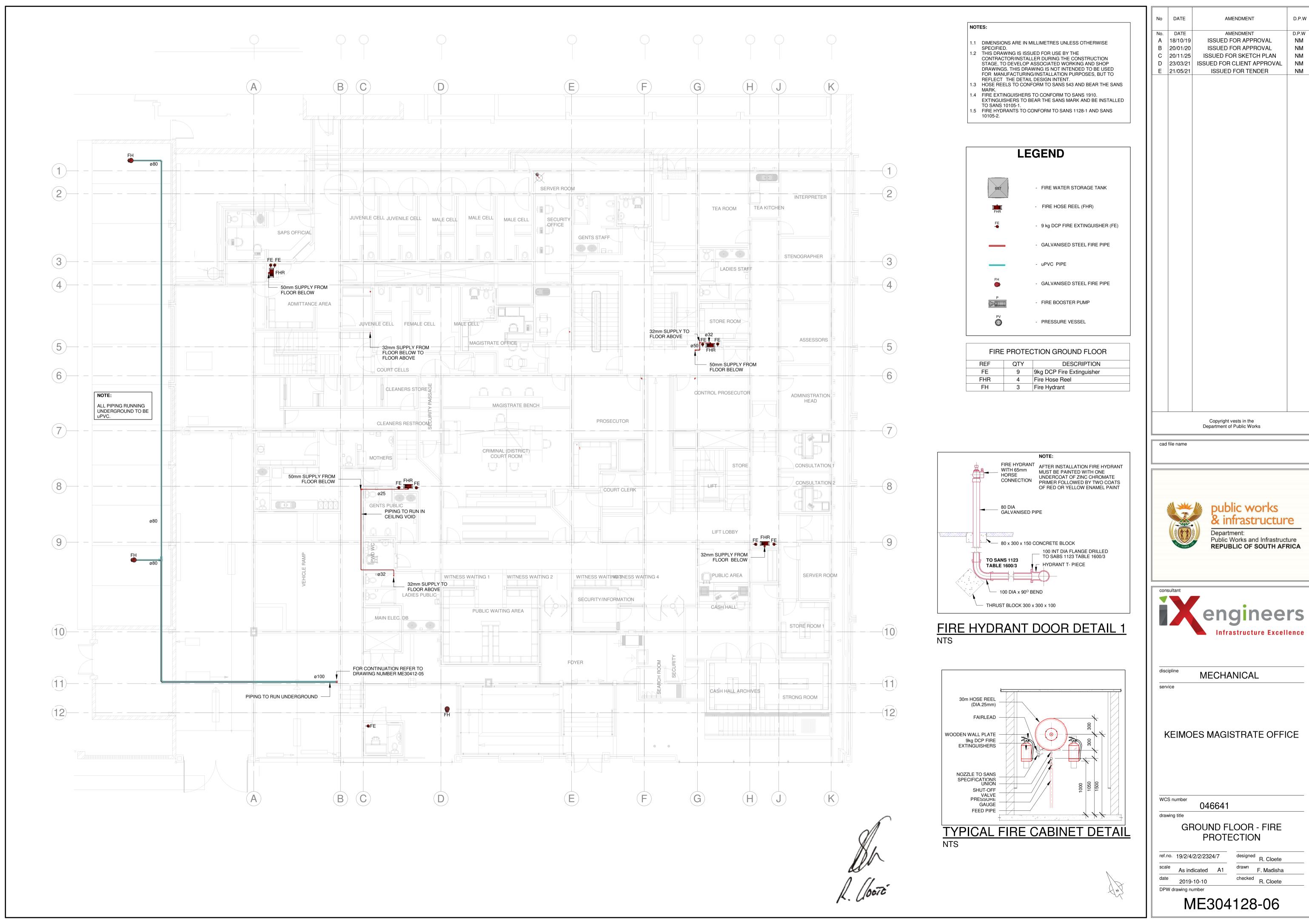
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scale As indicated A1
date 2019-10-10

designed
R. Cloete

drawn
F. Madisha

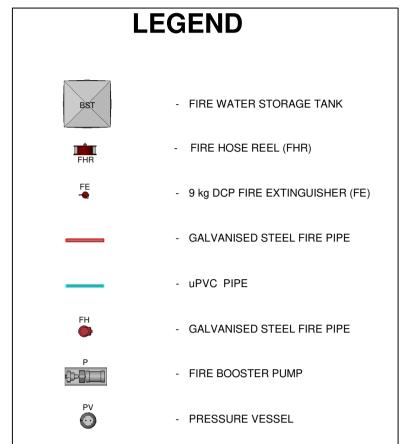
checked
R. Cloete

ME304128-05

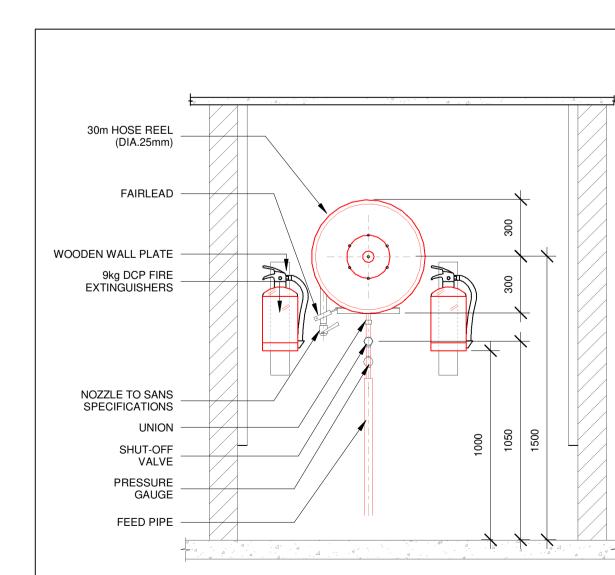




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- 1.3 HOSE REELS TO CONFORM TO SANS 543 AND BEAR THE SANS
- 1.4 FIRE EXTINGUISHERS TO CONFORM TO SANS 1910. EXTINGUISHERS TO BEAR THE SANS MARK AND BE INSTALLED
- 1.5 FIRE HYDRANTS TO CONFORM TO SANS 1128-1 AND SANS



FIRE PROTECTION FIRST FLOOR							
REF	QTY	DESCRIPTION					
FE	9	9kg DCP Fire Extinguisher					
FHR	3	Fire Hose Reel					



TYPICAL FIRE CABINET DETAIL
NTS



No	DATE	AMENDMENT	D.P.W
No.	DATE	AMENDMENT	D.P.W
Α	18/10/19	ISSUED FOR APPROVAL	NM
В	20/01/20	ISSUED FOR APPROVAL	NM
C	20/11/25	ISSUED FOR SKETCH PLAN	NM
D	23/03/21	ISSUED FOR CLIENT APPROVAL	NM
E		ISSUED FOR TENDER	
<u> </u>	21/05/21	1550ED FOR TENDER	NM

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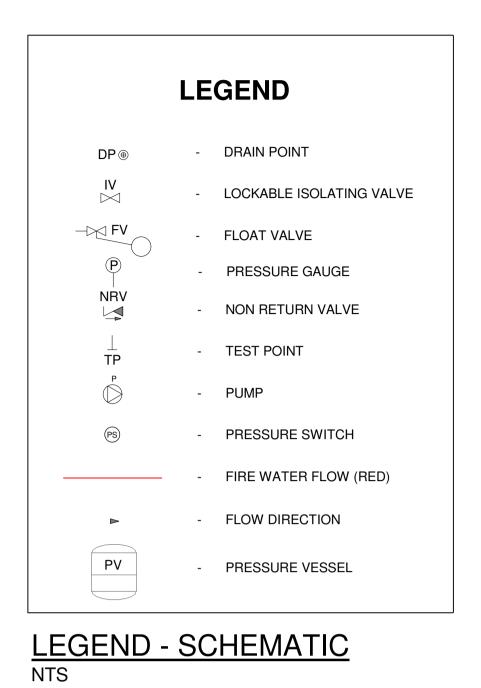
MECHANICAL

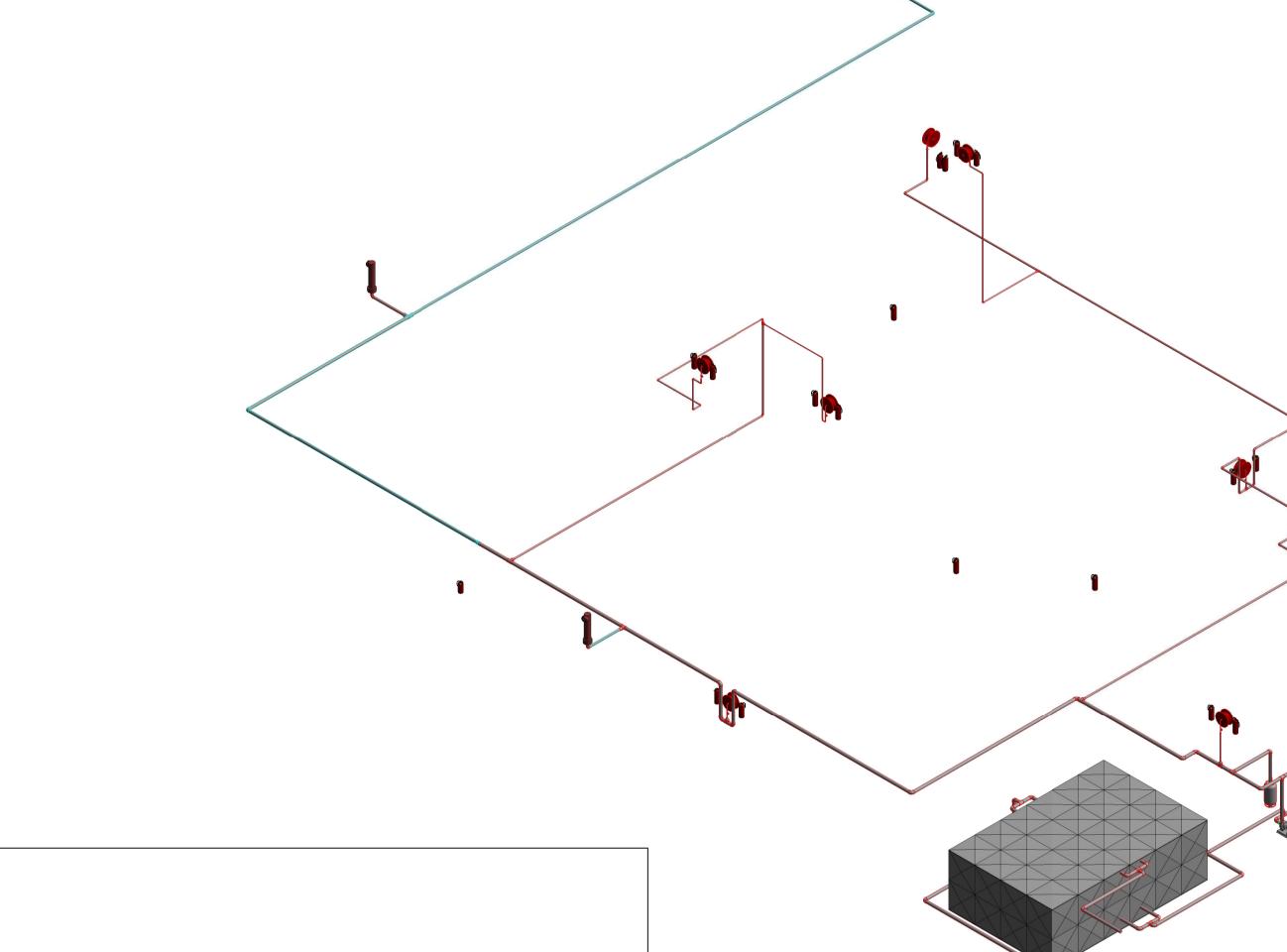
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FIRST FLOOR - FIRE PROTECTION

ME304128-07





INDICATIVE 3D-FIRE PROTECTION LAYOUT

IV |----82000L USABLE VOLUME (4 PANELS / WIDE x 6 PANELS x 2 PANELS HIGH) FIRE WATER STORAGE TANK (TOP Ø 100mm (INTERNA TANK DIVSION)
TANK DIVIDED IN HALF INTO TWO
EQUAL VOLUMES IV —>>> Ø 100mm FV FV Ø100mm SUPPLY TO HORSE REELS AND FIRE HYDRANTS Ø 100mm DRAIN POINT Ø100mm Ø100mm BYPASS TO FIRE WATER SUPPLY Ø80mm Ø80mm uPVC MAINS INCOMING COLD WATER SUPPLY (BY OTHERS), CONVERT TO Ø100mm GALVANISED PIPING USING APPROPRIATE FITTINGS.



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AMENDMENT

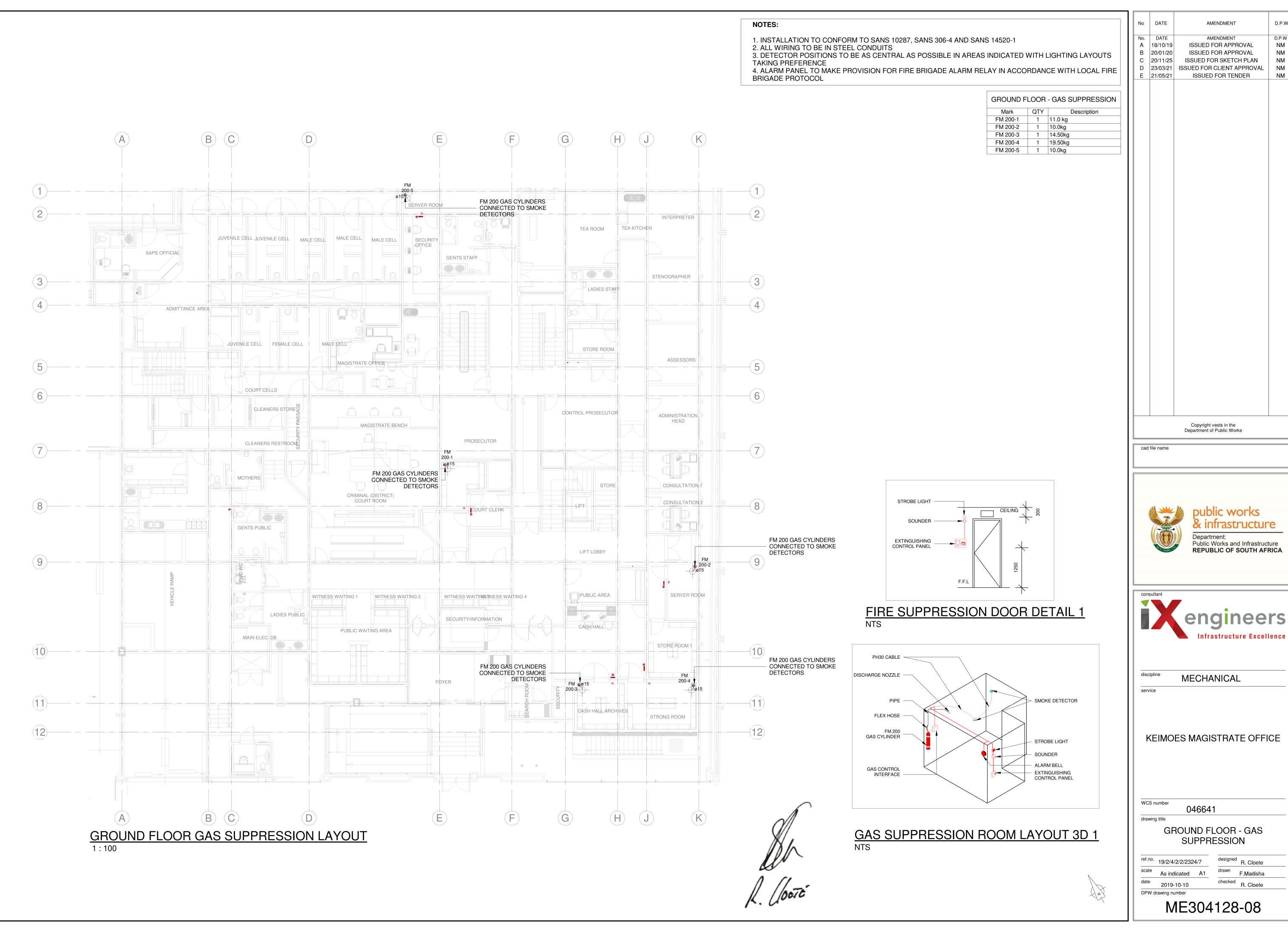
AMENDMENT

ISSUED FOR TENDER

A 21/03/17 ISSUED FOR INTERNAL REVIEW
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FIRE WATER SUPPLY SCHEMATIC

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