



Rural development & agrarian reform

Department:
Rural Development & Agrarian Reform
PROVINCE OF THE EASTERN CAPE

BID FOR THE CONSTRUCTION OF 2 x 50 SEATER FURNISHED LECTURE THEATRES AT FORT COX

LOCATION: MIDDLEDRIFT

VOLUME 4 – DRAWINGS

BID NO - SCMU8-21/22-0092

Head Office: Supply Chain Management Private Bag X 0040 Bhisho 5605 Contact: Name: Nosibusiso Mateta Telephone: 040 605 5263/079 505 9722	Consultants: Nolwandle Quantity Surveyors Principal Agent P.O. Box 2250 Beacon Bay, East London 5241 Contact: Name: Fezeka Manyika Telephone: 083 271 7191
Tenderer	
CSD Number:	
LOGIS Number:	
Preference Points Claimed:	
Closing date on tender: 30 September 2021 Time at: 11:00 am	

PART D: SITE INFORMATION

PART D.1: DRAWINGS

**EASTERN CAPE GOVERNMENT
DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM**

**BID FOR THE BID FOR THE CONSTRUCTION OF 2 x 50 SEATER FURNISHED
LECTURE THEATRES AT FORT COX COLLEGE**

C4 Site Information

ITEM	DESCRIPTION
Site Location	FORT COX COLLEGE is in Middledrift, Cwarhu Road
GPS co ordinates	FORT COX COLLEGE co-ordinates 32° 46'57.00 S 27° 01'40.00 E°
General geography	Rough terrain
Road conditions	Tarred road and fair gravel road
Site extent	2.1ha
Site clearance required	Yes
Site soil properties	Unknown, contractor to inspect and verify the suitability
Site vegetation	Grass
Site fenced	YES
Site access	Community / Employees of DRDAR / Animals
Services available	
Accommodation	Provide own
Labour	Negotiate local labour with the community and client
Storage of materials	Provide own
Security	Provide own
Construction difficulty	Medium difficulty
Plant required	Water tanks, Jack hammers, Compact rollers, whacker, concrete mixer, generator with welder, concrete vibrator.
Equipment / tools required for	Contractor to identify specific tools for various tasks
Transport required	For all materials For all plant, equipment and tools For contractor's personnel
Testing of works	Concrete test cubes for testing of concrete strength; Laboratory testing of compacted area Engineer to oversee testing of the completed Works
Commissioning of works	Contractor to commission and test.

**EASTERN CAPE PROVINCIAL GOVERNMENT
DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM**

**BID FOR THE BID FOR THE CONSTRUCTION OF 2 x 50 SEATER FURNISHED
LECTURE THEATRES AT FORT COX COLLEGE**

C.4.2 Schedule of contract Drawings

The following drawings form part of this contract:

DRAWING NUMBER	DESCRIPTION
2107-A-2100-210805	Ground Floor Layout
2107-A-4000-210805	Elevation Layout
EL21-03-HVAC-01	HVAC Layout
EL21-03-FD-SLD01-02	Single line diagram
EL21-03-FD-LPC01	Lighting power and Communication
EL21-03-ICT-01	Network Schematic Layout
EL21-03-DW-01	Domestic Water Layout
EL21-03-FD-01	Fire Detection Layout



LE1001 INTERACTIVE LECTURN SOLUTION

Features:

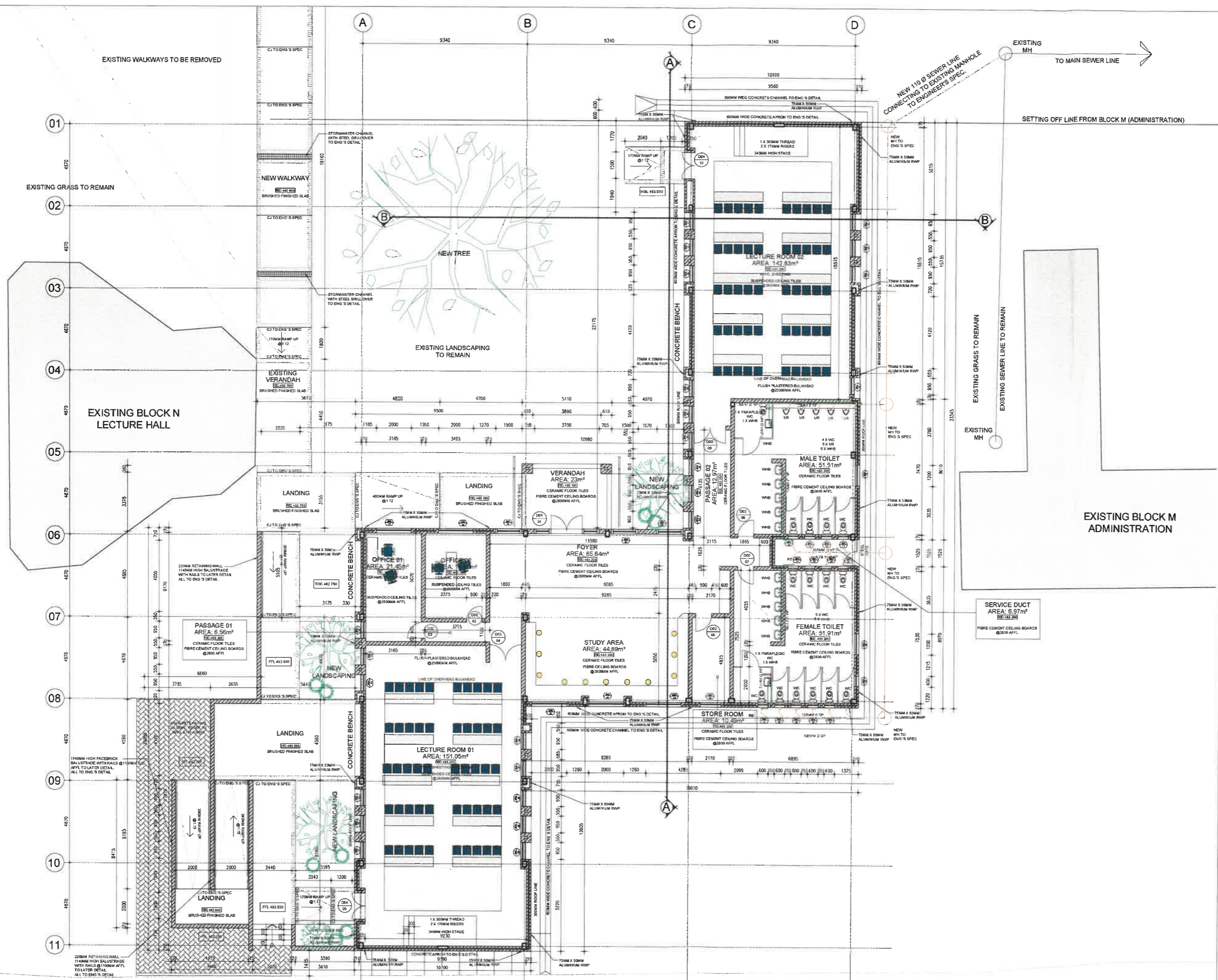
- Built-in 3 sub-woofer loudspeakers
- One treble speaker, with rated output power 60W
- Built-in 60W amplifier
- Built-in microphone and desk lamp
- Includes one VHF handheld wireless microphone and one Lapel microphone
- One line input, two microphone inputs,
- One line output and one record output
- Ideal for rooms up to 80 m2, additional speakers can be added for larger rooms.



VZ0002 VISUALIZERPRESENTER DELUXE

- High Performance
- 8M Pixel
- 1/4" Cmos Sensor
- Full HD Sensor
- Max Resolution 1080p via HDMI output
- 30fps
- 100 x Digital zoom
- Record presentations and save via SD card
- Compatible with 20-34mm microscope eyepiece
- Auto Focus
- Easy to connect to Projectors, Touch Screens, Interactive Whiteboards, Wireless Tablets and Wireless Mouse.
- Ideal to share information from text books, journals, models or 3D objects
- Large image capture (Max A3)
- Built in LED lights for low-light conditions
- Rotating Camera Head

NO.	DATE	REVISION	FOR
A	2021/08/05	ISSUED FOR APPROVAL	FA



DRAWING TYPE
STAGE 4.2 (DOCUMENTATION & PROCUREMENT)
 TENDER DOCUMENTATION

CONSULTANT
miso
 architects | interior designers | property developers
 25 Via Donato | Cornhill Road | Grahamstown | South Africa
 +27 62 318 8793 | www.miso.com

DISCIPLINE
 ARCHITECTURE
 PROFESSIONAL CONSULTANT NAME: MILISANI MANASOE
 PROFESSIONAL REGISTRATION NUMBER: PR ARCH 20715

SIGNATURE
 DATE: 2021/08/11
 DESIGNED
 DRAWN
 DATE

CLIENT

 Province of the
EASTERN CAPE
 RURAL DEVELOPMENT &
 AGRARIAN REFORM

SIGNATURE
 DATE
 DESIGNATION

PROJECT
DRDAR - FORT COX LECTURE ROOMS
 TWO 50-SEATER LECTURE ROOMS WITH STUDY AREA
 AND ABLUATIONS AT THE FORT COX COLLEGE OF
 AGRICULTURE

PROVINCE: EASTERN CAPE PROVINCE
 DRAWING TITLE
GROUND FLOOR LAYOUT

STAND COORDINATES
 -32.74500895161148, 27.026812444310014

PROJECT NUMBER	DISCIPLINE	DRAWING NUMBER	STATUS	REV
SCMUB-21/22-0095	A	2107-A-2100	FA	A

Title: **GROUND FLOOR LAYOUT**

Scale: 1:100

DOOR ELEVATION	DOOR NO. POSITION LH RH GLAZING	DOOR NO. POSITION LH RH GLAZING	DOOR NO. POSITION LH RH GLAZING	DOOR NO. POSITION LH RH GLAZING																																																																						
	<table border="1"> <tr><th>DOOR NO.</th><th>POSITION</th><th>LH</th><th>RH</th><th>GLAZING</th></tr> <tr><td># 01</td><td>FOYER</td><td>X</td><td>X</td><td>NONE</td></tr> </table>	DOOR NO.	POSITION	LH	RH	GLAZING	# 01	FOYER	X	X	NONE	<table border="1"> <tr><th>DOOR NO.</th><th>POSITION</th><th>LH</th><th>RH</th><th>GLAZING</th></tr> <tr><td># 02</td><td>OFFICE 02</td><td>X</td><td>X</td><td>NONE</td></tr> <tr><td># 03</td><td>OFFICE 03</td><td>X</td><td>X</td><td>NONE</td></tr> <tr><td># 06</td><td>STORE ROOM</td><td>X</td><td>X</td><td>NONE</td></tr> <tr><td># 07</td><td>FEMALE TOILET</td><td>X</td><td>X</td><td>NONE</td></tr> <tr><td># 08</td><td>MALE TOILET</td><td>X</td><td>X</td><td>NONE</td></tr> </table>	DOOR NO.	POSITION	LH	RH	GLAZING	# 02	OFFICE 02	X	X	NONE	# 03	OFFICE 03	X	X	NONE	# 06	STORE ROOM	X	X	NONE	# 07	FEMALE TOILET	X	X	NONE	# 08	MALE TOILET	X	X	NONE	<table border="1"> <tr><th>DOOR NO.</th><th>POSITION</th><th>LH</th><th>RH</th><th>GLAZING</th></tr> <tr><td># 05</td><td>LECTURE ROOM 01</td><td>X</td><td>X</td><td>NONE</td></tr> <tr><td># 10</td><td>LECTURE ROOM 02</td><td>X</td><td>X</td><td>NONE</td></tr> </table>	DOOR NO.	POSITION	LH	RH	GLAZING	# 05	LECTURE ROOM 01	X	X	NONE	# 10	LECTURE ROOM 02	X	X	NONE	<table border="1"> <tr><th>DOOR NO.</th><th>POSITION</th><th>LH</th><th>RH</th><th>GLAZING</th></tr> <tr><td># 05</td><td>LECTURE ROOM 01</td><td>X</td><td>X</td><td>NONE</td></tr> <tr><td># 11</td><td>LECTURE ROOM 02</td><td>X</td><td>X</td><td>NONE</td></tr> </table>	DOOR NO.	POSITION	LH	RH	GLAZING	# 05	LECTURE ROOM 01	X	X	NONE	# 11	LECTURE ROOM 02	X	X	NONE
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# 11	LECTURE ROOM 02	X	X	NONE																																																																						
DOOR TYPE	D01	D02	D03	D04																																																																						
QUANTITY REQUIRED	1 OFF	5 OFF	2 OFF	2 OFF																																																																						
DOOR LEAF DESCRIPTION	1710MM X 2420MM SPECIAL ALUMINIUM TYPE DOUBLE DOOR	813MM X 2420MM X 40MM SOLID FLUSH PANEL DOOR WITH HARDBOARD ON BOTH SIDES AND CONCEALED EDGES.	1800MM WIDE X 2400MM X 44MM THICK CLASS B (1 HOUR) FIRE DOOR WITH MDF FACE FINISH AND HARDWOOD TIMBER EDGING.	1511MM WIDE X 2400MM X 44MM THICK CLASS B (1 HOUR) FIRE DOOR WITH MDF FACE FINISH AND HARDWOOD TIMBER EDGING.																																																																						
DOOR FINISH	POWDER COATED, COLOUR AS PER COLOUR SCHEDULE. ALUMINIUM SECTIONS WITH FIXED GLASS PANES AND SIDE LIGHTS AS INDICATED.	1 X UNDERCOAT AND 2 X COATS OF EGGSHELL ENAMEL PAINT. COLOUR AS PER COLOUR SCHEDULE. (REFER TO DWG: 2107-A-8300)	1 X UNDERCOAT AND 2 X COATS OF EGGSHELL ENAMEL PAINT. COLOUR AS PER COLOUR SCHEDULE. (REFER TO DWG: 2107-A-8300)	1 X UNDERCOAT AND 2 X COATS OF EGGSHELL ENAMEL PAINT. COLOUR AS PER COLOUR SCHEDULE. (REFER TO DWG: 2107-A-8300)																																																																						
FRAME DESCRIPTION	ALUMINIUM SECTIONS	1.2MM DOUBLE REBATED MILD STEEL HEADY DUTY DOOR FRAME TO FIT 220MM WALL AS PER PLAN (DWG: 2107-A-2100). FRAME IS TO ACCOMMODATE 813MM X 2420MM DOOR LEAF.	1.6MM THICK PRE-GALVANISED STEEL WITH 30MM WIDE BY 48MM DEEP REBATE, WITH 10 FIXING LUGS OF NOMINAL SIZE OF 340MM X 30MM X 1.6MM TO EACH SIDE.	1.6MM THICK PRE-GALVANISED STEEL WITH 30MM WIDE BY 48MM DEEP REBATE, WITH 10 FIXING LUGS OF NOMINAL SIZE OF 340MM X 30MM X 1.6MM TO EACH SIDE.																																																																						
FRAME FINISH	POWDER COATED. COLOUR AS PER COLOUR SCHEDULE. (REFER TO DWG: 2107-A-8300).	1 X COAT ZINC CHROMATE PRIMER (IF REQUIRED) AND 2 X COATS GLOSS ENAMEL PAINT (EXTERIOR QUALITY) COLOUR AS PER COLOUR SCHEDULE. (REFER TO DWG: 2107-A-8300).	1 X COAT ZINC CHROMATE PRIMER (IF REQUIRED) AND 2 X COATS GLOSS ENAMEL PAINT (EXTERIOR QUALITY) COLOUR AS PER COLOUR SCHEDULE. (REFER TO DWG: 2107-A-8300).	1 X COAT ZINC CHROMATE PRIMER (IF REQUIRED) AND 2 X COATS GLOSS ENAMEL PAINT (EXTERIOR QUALITY) COLOUR AS PER COLOUR SCHEDULE. (REFER TO DWG: 2107-A-8300).																																																																						
IRONMONGERY	HINGES TO BE PROVIDED BY MANUFACTURER. REFER TO IRONMONGERY SCHEDULE. (REFER TO DWG: 2107-A-8500)	REFER TO IRONMONGERY SCHEDULE. (REFER TO DWG: 2107-A-8500)	HINGES TO BE PROVIDED BY MANUFACTURER. REFER TO IRONMONGERY SCHEDULE. (REFER TO DWG: 2107-A-8500)	HINGES TO BE PROVIDED BY MANUFACTURER. REFER TO IRONMONGERY SCHEDULE. (REFER TO DWG: 2107-A-8500)																																																																						
GLAZING	6.76MM HIGH PENETRATION RESISTANCE INTRUDER PROOF SAFETY GLAZING AS PER PART N - GLAZING OF SANS 10400.	NONE	NONE	NONE																																																																						
GATE ELEVATION																																																																										
GATE TYPE	G01																																																																									
QUANTITY REQUIRED	1 OFF																																																																									
GATE DESCRIPTION	2320MM WIDE X 2400MM HIGH PURPOSE-MADE M/S DOUBLE SECURITY GATE WITH FIXED SIDE PANELS. BRICKWORK OPENING SIZE TO BE CHECKED ON SITE PRIOR TO MANUFACTURE. 38X38X2.5MM RECTANGULAR HOLLOW SECTION FRAME WITH 25X25X2.5MM INTERMEDIATES @ 100MM CENTRES AT A 45° ANGLE. COLOUR AS PER COLOUR SCHEDULE. (REFER TO DWG: 2107-A-8300).																																																																									
GATE FINISH	1 X COAT ZINC CHROMATE PRIMER (IF REQUIRED) AND 2 X COATS GLOSS ENAMEL PAINT (EXTERIOR QUALITY) COLOUR AS PER COLOUR SCHEDULE. (REFER TO DWG: 2107-A-8300).																																																																									
FRAME DESCRIPTION	38MM X 38MM X 2.5MM RECTANGULAR M/S HOLLOW SECTION WELDED TO FORM FRAME FIXED TO BRICKWORK ON EACH SIDE WITH 4 X 30MM X 50MM FIXING LUGS AND RAW BOLTS. REFER TO DETAIL ON 2107-A-8100																																																																									
FRAME FINISH	1 X COAT ZINC CHROMATE PRIMER (IF REQUIRED) AND 2 X COATS GLOSS ENAMEL PAINT (EXTERIOR QUALITY) COLOUR AS PER COLOUR SCHEDULE. (REFER TO DWG: 2107-A-8300).																																																																									
IRONMONGERY	SECURITY DEAD LOCK (NO LATCH) WITH HANDLE ON BOTH SIDES. REFER TO IRONMONGERY SCHEDULE. (REFER TO DWG: 2107-A-8500)																																																																									

NO	DATE	REASON	FOR
A	2021/08/06	ISSUED FOR APPROVAL	FA

DRAWING TYPE
 STAGE 4.2 (DOCUMENTATION & PROCUREMENT)
 TENDER DOCUMENTATION

CONSULTANT
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 architects | interior designers | property developers
 25 Via D'Amalia | Campbell Road | Craigavon | South Africa
 +27 82308 8295 | www.miso.co.za

DISCIPLINE
 ARCHITECTURE

PROFESSIONAL CONSULTANT NAME: MILISANI MANASOE
 PROFESSIONAL REGISTRATION NUMBER: PR ARCH 20715

SIGNATURE
 DATE: 2021/06/11
 DESIGNED
 DRAWN
 DATE



SIGNATURE
 DATE
 DESIGNATION

PROJECT
DRDAR - FORT COX LECTURE ROOMS
 TWO 50-SEATER LECTURE ROOMS WITH STUDY AREA AND ABLUTIONS AT THE FORT COX COLLEGE OF AGRICULTURE
 PROVINCE: EASTERN CAPE PROVINCE
 DRAWING TITLE

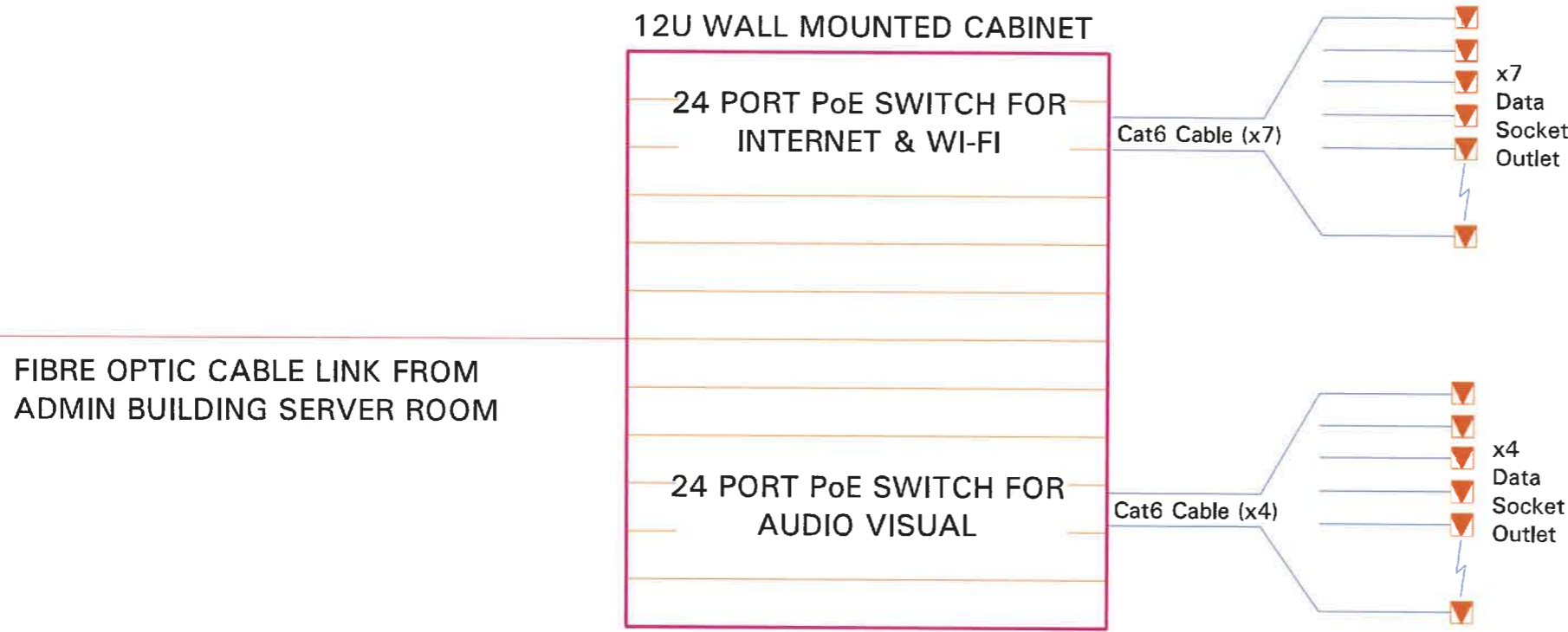
DOOR SCHEDULE

STAND COORDINATES
 -32.74500895161148, 27.026812444310014

PROJECT NUMBER	DISCIPLINE	DRAWING NUMBER	STATUS	REV.
SCMU8-21/22-0095	A	2107-A-8100	FA	A

SCHEMATIC LAYOUT

NOTE:



LEGEND

	RJ45 DATA OUTLET
	CAT 6 CABLE LINK
	FIBRE OPTIC CABLE LINK
	NETWORK CABINET

NO	DATE	DESCRIPTION	APPROVED
0	AUG 21	ISSUED FOR TENDER	F.M
B	AUG 21	ISSUED FOR SUBMISSION	F.M
A	JUL 21	ISSUED FOR SUBMISSION	F.M

SCALE		SCALE ON REDUCED DRAWING	
 50mm ON ORIGINAL DRAWING			
DRAWN	DATE	DESIGNED	DATE
A MKUPA	JUL 21	A MKUPA	JUL 21
CHECKED	DATE	APPROVED	DATE
F.MVULANA Pr, Techni.(Eng.)	JUL 21	F.MVULANA Pr, Techni.(Eng.)	JUL 21

CLIENT

Province of the **EASTERN CAPE**
RURAL DEVELOPMENT & AGRICULTURE REFORM



PROJECT

DRDAR - FORT COX LECTURE ROOMS
TWO 50-SEATER LECTURE ROOMS WITH STUDY AREA AND ABLUTIONS AT THE FORT COX COLLEGE OF AGRICULTURE

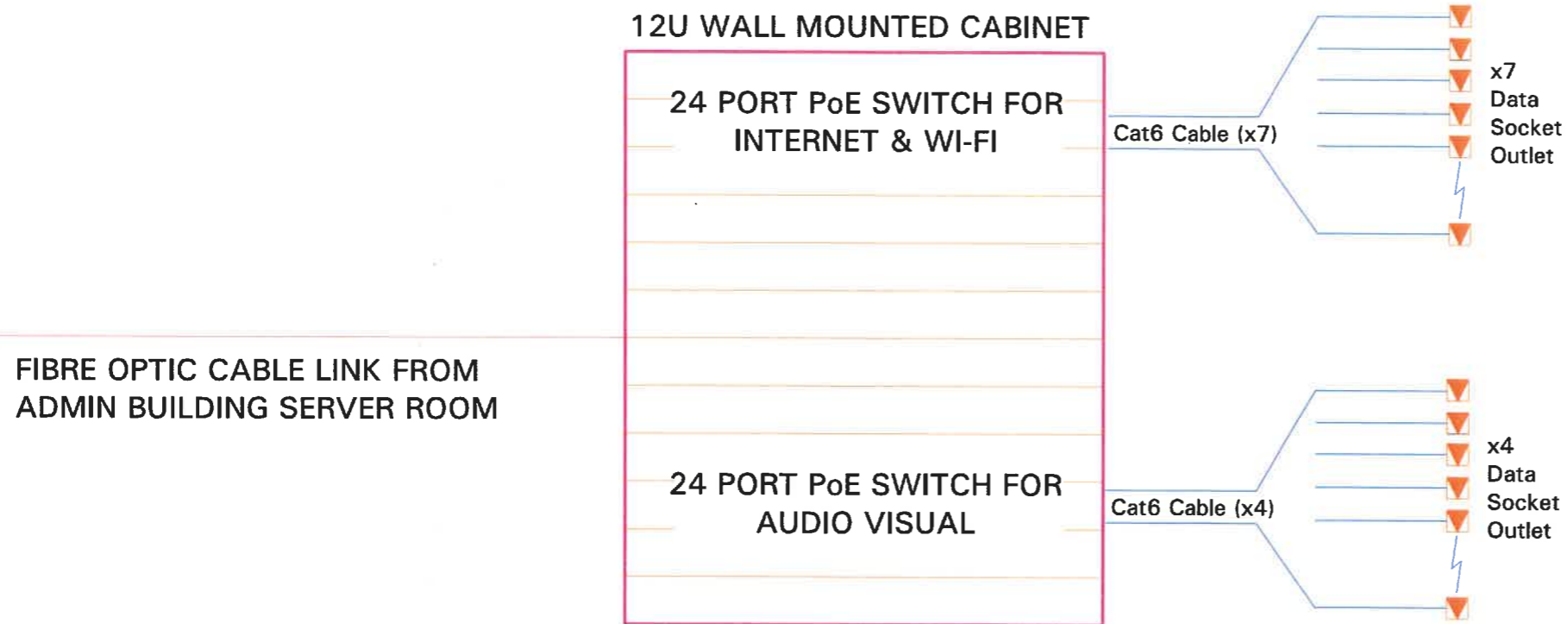
DRAWING TITLE

NETWORK SCHEMATIC LAYOUT

TENDER DRAWING

DRAWING NUMBER	REV
EL21-03-JCT01	0

SCHEMATIC LAYOUT



LEGEND

	RJ45 DATA OUTLET
	CAT 6 CABLE LINK
	FIBRE OPTIC CABLE LINK
	NETWORK CABINET

NOTE:

NO	DATE	DESCRIPTION	APPROVED
D	AUG 21	ISSUED FOR TENDER	F.M
B	AUG 21	ISSUED FOR SUBMISSION	F.M
A	JUL 21	ISSUED FOR SUBMISSION	F.M

SCALE	SCALE ON REDUCED DRAWING
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A MKUPA	JUL 21	A MKUPA	JUL 21

CHECKED	DATE	APPROVED	DATE
F.MVULANA Pr. Techn.(Eng.)	JUL 21	F.MVULANA Pr. Techn.(Eng.)	JUL 21

CLIENT

Province of the **EASTERN CAPE**
RURAL DEVELOPMENT & AGRICULTURE REFORM

ELECTRICAL/MECHANICAL ENGINEERS

AKM & ASSOCIATES
consulting electrical & mechanical engineers & project managers
 GREEN BUILDING COUNCIL

PROJECT

DRDAR - FORT COX LECTURE ROOMS
TWO 50-SEATER LECTURE ROOMS WITH STUDY AREA AND ABLUTIONS AT THE FORT COX COLLEGE OF AGRICULTURE

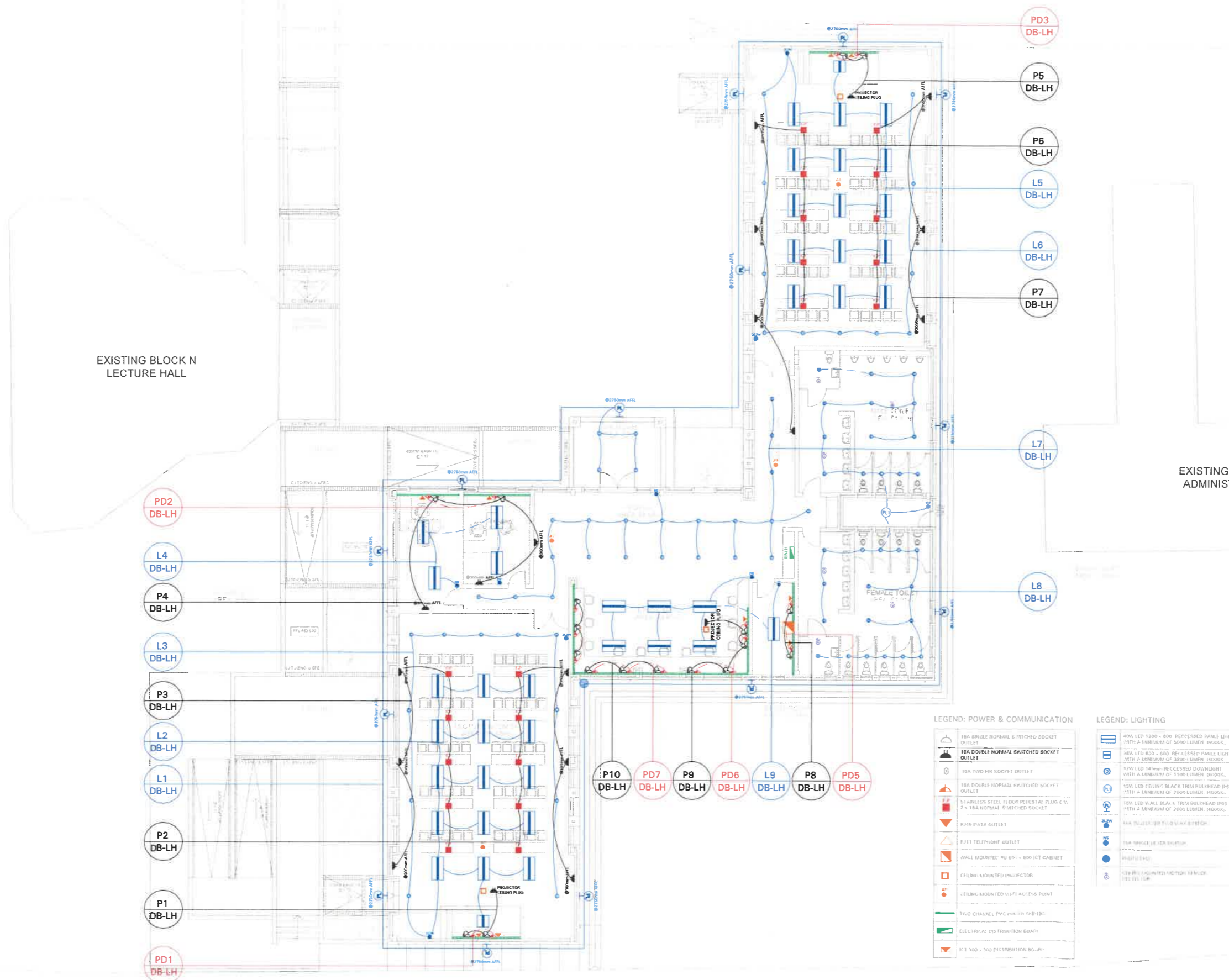
DRAWING TITLE

NETWORK SCHEMATIC LAYOUT

TENDER DRAWING

DRAWING NUMBER	REV
EL21-03-4CT01	0

NOTE:



- PD2 DB-LH
- L4 DB-LH
- P4 DB-LH
- L3 DB-LH
- P3 DB-LH
- L2 DB-LH
- L1 DB-LH
- P2 DB-LH
- P1 DB-LH
- PD1 DB-LH

- P10 DB-LH
- PD7 DB-LH
- P9 DB-LH
- PD6 DB-LH
- L9 DB-LH
- P8 DB-LH
- PD5 DB-LH

- PD3 DB-LH
- P5 DB-LH
- P6 DB-LH
- L5 DB-LH
- L6 DB-LH
- P7 DB-LH
- L7 DB-LH
- L8 DB-LH

LEGEND: POWER & COMMUNICATION

- 16A SINGLE NORMAL SWITCHED SOCKET OUTLET
- 16A DOUBLE NORMAL SWITCHED SOCKET OUTLET
- 18A TWO PIN SOCKET OUTLET
- 16A DOUBLE NORMAL SWITCHED SOCKET OUTLET
- STAINLESS STEEL FLOOR PIERCEABLE PLUG C.V. 2 x 16A NORMAL SWITCHED SOCKET
- RJ45 DATA OUTLET
- RJ11 TELEPHONE OUTLET
- WALL MOUNTED 900 x 600 ICT CABINET
- CEILING MOUNTED PROJECTOR
- CEILING MOUNTED VLFIT ACCESS POINT
- TWO CHANNEL PVC PULVER FIBRE
- ELECTRICAL DISTRIBUTION BOARD
- 100 x 100 x 750 DISTRIBUTION BOARD

LEGEND: LIGHTING

- 40W LED 1200 x 600 RECESSED PANEL LIGHT WITH A LUMENAGE OF 3000 LUMEN. HSGOC.
- 18W LED 600 x 600 RECESSED PANEL LIGHT WITH A LUMENAGE OF 2000 LUMEN. HSGOC.
- 12W LED 145mm RECESSED DOWNLIGHT WITH A LUMENAGE OF 1100 LUMEN. HSGOC.
- 15W LED CEILING BLACK TRIM BULBHEAD IP65 WITH A LUMENAGE OF 2000 LUMEN. HSGOC.
- 10W LED WALL BLACK TRIM BULBHEAD IP65 WITH A LUMENAGE OF 2000 LUMEN. HSGOC.
- 14W TRACK LIGHT WITH A LUMENAGE OF 2000 LUMEN. HSGOC.
- 18A SINGLE LED LIGHT
- PROJECTOR
- 100 x 100 x 750 DISTRIBUTION BOARD

TENDER DRAWING

NO	DATE	DESCRIPTION	APPROVED
0	AUG 21	ISSUED FOR TENDER	F.M
B	AUG 21	ISSUED FOR SUBMISSION	F.M
A	JUL 21	ISSUED FOR SUBMISSION	F.M

SCALE	SCALE ON REDUCED DRAWING
1 : 75 ON A0	

DRAWN	DATE	DESIGNED	DATE
A MKUPA	JUL 21	A MKUPA	JUL 21

CHECKED	DATE	APPROVED	DATE
F.MVULANA Pr. Techn.(Eng.)	JUL 21	F.MVULANA Pr. Techn.(Eng.)	JUL 21

CLIENT



ELECTRICAL/MECHANICAL ENGINEERS



PROJECT
**DRDAR - FORT COX LECTURE ROOMS
 TWO 50-SEATER LECTURE ROOMS WITH
 STUDY AREA AND ABLUTIONS AT THE FORT
 COX COLLEGE OF AGRICULTURE**

DRAWING TITLE
**LIGHTING POWER AND COMMUNICATION
 LAYOUT**

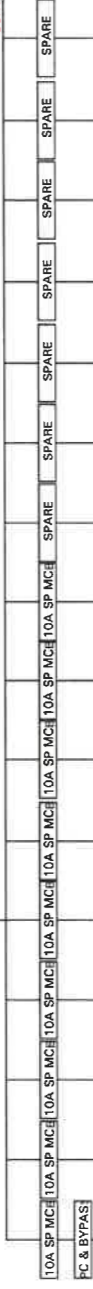
DRAWING NUMBER	REV
EL21-03-LPC01	0

LIGHTING

Essential Supply

BDA TPI 1
SPD CLASS (10/350uS)

CONTINUED BELOW



Circuit Number	Circuit Name	Description	Load (kW)	Cable/Conductor Size	DB NAME	DB COLOUR
1	L1	Exterior Lights	0.3	1.5mm ²	RED	
2	L2	Lecture Room 01	0.6	1.5mm ²	FLUSH	
3	L3	Lecture Room 01	0.1	1.5mm ²		
4	L4	Office 01 802	0.2	1.5mm ²		
5	L5	Lecture Room 02	0.6	1.5mm ²		
6	L6	Lecture Room 02	0.1	1.5mm ²		
7	L7	Passage 01 & 02	0.3	1.5mm ²		
8	L8	Male & Female	0.4	1.5mm ²		
9	L9	Study Room	0.2	1.5mm ²		
10	SPARE					
11	P1	Lecture Room 01	1.8	2.5mm ²		
12	P2	Lecture Room 01	3.9	2.5mm ²		
13	P3	Lecture Room 01	3.9	2.5mm ²		
14	P4	Office 01 802	1.5	2.5mm ²		
15	P5	Lecture Room 02	0.9	2.5mm ²		
16	P6	Lecture Room 02	3.9	2.5mm ²		
17	P7	Lecture Room 02	3.9	2.5mm ²		
18	P8	Passage 02	0.9	2.5mm ²		
19	P9	Lecture Room 02	0.9	2.5mm ²		
20	P10	Study Room	2.1	2.5mm ²		
21	P11	Study Room	2.1	2.5mm ²		
22	SPARE					
23	PD1	Lecture Room 01	0.6	2.5mm ²		
24	PD2	Office 01 & 02	0.6	2.5mm ²		
25	PD3	Lecture Room 02	0.6	2.5mm ²		
26	PD4	Passage 02	0.6	2.5mm ²		

SOCKET OUTLETS & POWER POINTS

CONTINUED

CONTINUED BELOW



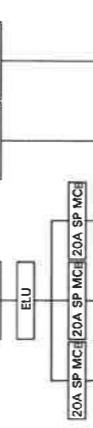
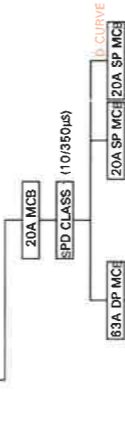
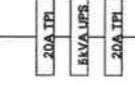
Circuit Number	Circuit Name	Description	Load (kW)	Cable/Conductor Size	DB NAME	DB COLOUR
27	UPS	UPS	3.9	2.5mm ²	RED	
28	PD5	Study Room	2.1	2.5mm ²	FLUSH	
29	PD7	Study Room	2.1	2.5mm ²		
30	ISO1	Lecture Room 01	3.7	2.5mm ²		
31	ISO2	Lecture Room 01	3.7	2.5mm ²		
32	AC1	Office 01	1.2	2.5mm ²		
33	AC2	Office 02	0.9	2.5mm ²		
34	ISO3	Lecture Room 02	3.7	2.5mm ²		
35	ISO4	Lecture Room 02	3.7	2.5mm ²		
36	AC3	Male & Female	0.9	2.5mm ²		
37	SPARE					
38	AC5	Study Room	2.4	2.5mm ²		
39	ISO5	Outdoor unit	7.4	3c/6mm ²		
40	ISO6	Outdoor unit	7.4	3c/6mm ²		
41	SPAE					
42	SPAE					

CONTINUED

CONTINUED BELOW



Circuit Number	Circuit Name	Description	Load (kW)	Cable/Conductor Size	DB NAME	DB COLOUR
27	UPS	UPS	3.9	2.5mm ²	RED	
28	PD5	Study Room	2.1	2.5mm ²	FLUSH	
29	PD7	Study Room	2.1	2.5mm ²		
30	ISO1	Lecture Room 01	3.7	2.5mm ²		
31	ISO2	Lecture Room 01	3.7	2.5mm ²		
32	AC1	Office 01	1.2	2.5mm ²		
33	AC2	Office 02	0.9	2.5mm ²		
34	ISO3	Lecture Room 02	3.7	2.5mm ²		
35	ISO4	Lecture Room 02	3.7	2.5mm ²		
36	AC3	Male & Female	0.9	2.5mm ²		
37	SPARE					
38	AC5	Study Room	2.4	2.5mm ²		
39	ISO5	Outdoor unit	7.4	3c/6mm ²		
40	ISO6	Outdoor unit	7.4	3c/6mm ²		
41	SPAE					
42	SPAE					



Circuit Number	Circuit Name	Description	Load (kW)	Cable/Conductor Size
1	P9	Store Room	1.5	2.5mm ²
2	SPARE			
3	SPARE			
4	PD5	Store Room	1.5	2.5mm ²
37	AC4	Store Room	0.3	2.5mm ²

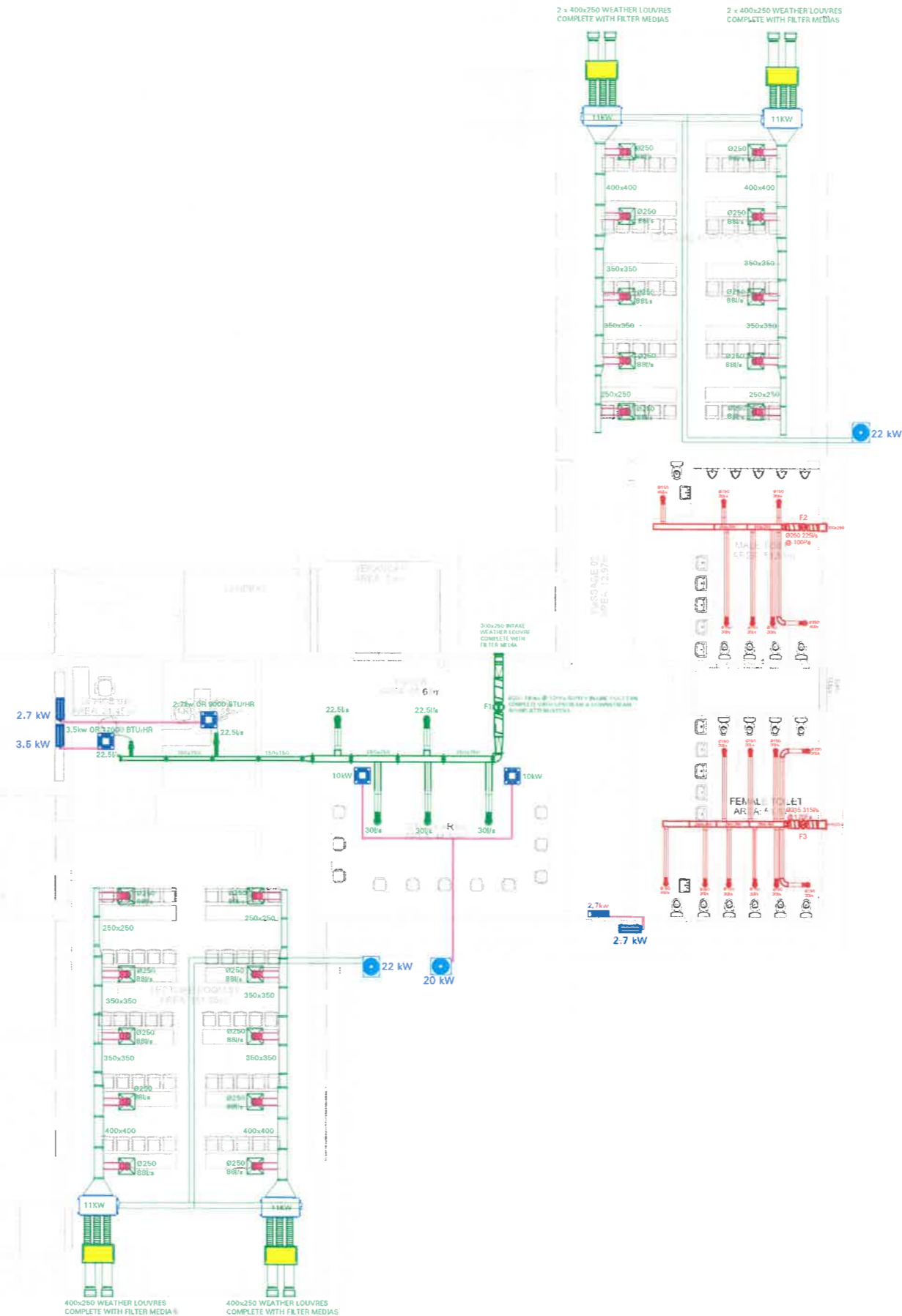
DB-LH/UPS	DB NAME
BLUE	DB COLOUR
FLUSH	DB FIXING
3.9	CONNECTED LOAD (kW)
3.1	DIVERSIFIED LOAD (kW)
10	FAULT LEVEL (kA)
4c/4	CABLE SIZE (mm ²)
20A TPI MCB	FEEDER MCB (amps)
KIOSK1	FED FROM

CLIENT	RURAL DEVELOPMENT & AGRARIAN REFORM
PROJECT	FORT COX COLLEGE
DRAWING TITLE	DISTRIBUTION BOARD - DB-LH
DRAWING NUMBER	SLD02
REVISION NUMBER	0
DRAWN BY	A. MAUFA
CHECKED	F. MIVULANA
DATE	JULY 2021



EXISTING BLOCK N
LECTURE HALL

EXISTING BLOCK M
ADMINISTRATION



TENDER DRAWING

NO	DATE	DESCRIPTION	APPROVED
D	AUG 21	CHANGED UNIT SIZE	B.M
C	AUG 21	ISSUED FOR TENDER	B.M
B	AUG 21	ISSUED FOR MUNICIPAL SUBMISSION	B.M
A	JULY 21	ISSUED FOR MUNICIPAL SUBMISSION	B.M

ROLE	NAME	SIGNATURE	DATE
DRAFTSPERSON	A.MTELELI		
DESIGNER	A.MTELELI		
RESP. ENG.	B.MEAKER		

SCALE	SCALE ON REDUCED DRAWING
1 : 100 ON A1	50mm ON ORIGINAL DRAWING

DRAWN	DATE	DESIGNED	DATE
A.MTELELI	JULY 21	A.MTELELI	JULY 21
CHECKED	DATE	APPROVED	DATE
B.MEAKER	JULY 21	B.MEAKER	JUNE 21

CLIENT

Province of the
EASTERN CAPE
RURAL DEVELOPMENT &
AGRARIAN REFORM

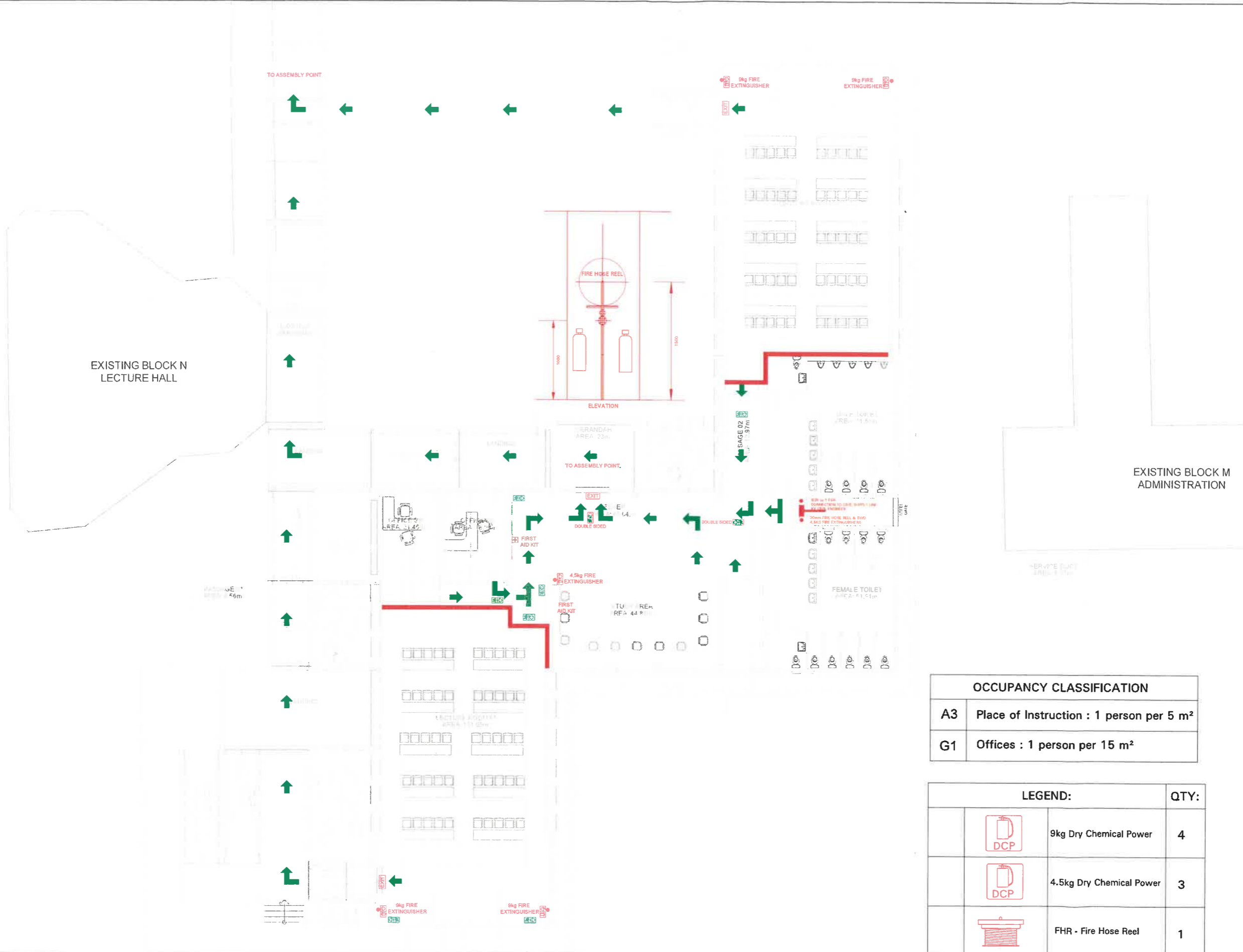
ELECTRICAL/MECHANICAL ENGINEERS

AKM & ASSOCIATES
consulting electrical & mechanical engineers
& project managers
GREEN BUILDING COUNCIL

PROJECT
DRDAR - FORT COX LECTURE ROOMS
TWO 50-SEATER LECTURE ROOMS WITH
STUDY AREA AND ABLUTIONS AT THE FORT
COX COLLEGE OF AGRICULTURE

DRAWING TITLE
HVAC LAYOUT

DRAWING NUMBER	REV
EL21-03-HVAC-01	D



OCCUPANCY CLASSIFICATION	
A3	Place of Instruction : 1 person per 5 m ²
G1	Offices : 1 person per 15 m ²

LEGEND:		QTY:
	9kg Dry Chemical Power	4
	4.5kg Dry Chemical Power	3
	FHR - Fire Hose Reel	1
	Firewall build to underside of roof	

TENDER DRAWING

NO	DATE	DESCRIPTION	APPROVED
C	AUG 21	ISSUED FOR TENDER	B.M
B	AUG 21	ISSUED FOR MUNICIPAL SUBMISSION	B.M
A	JULY 21	ISSUED FOR MUNICIPAL SUBMISSION	B.M

ROLE	NAME	SIGNATURE	DATE
DRAFTSPERSON	A.MTELELI		
DESIGNER	A.MTELELI		
RESP. ENG.	B.MACKENZIE		

SCALE: SCALE ON REDUCED DRAWING
1 : 100 ON A1

SCALE	SCALE ON REDUCED DRAWING
1 : 100 ON A1	50mm ON ORIGINAL DRAWING

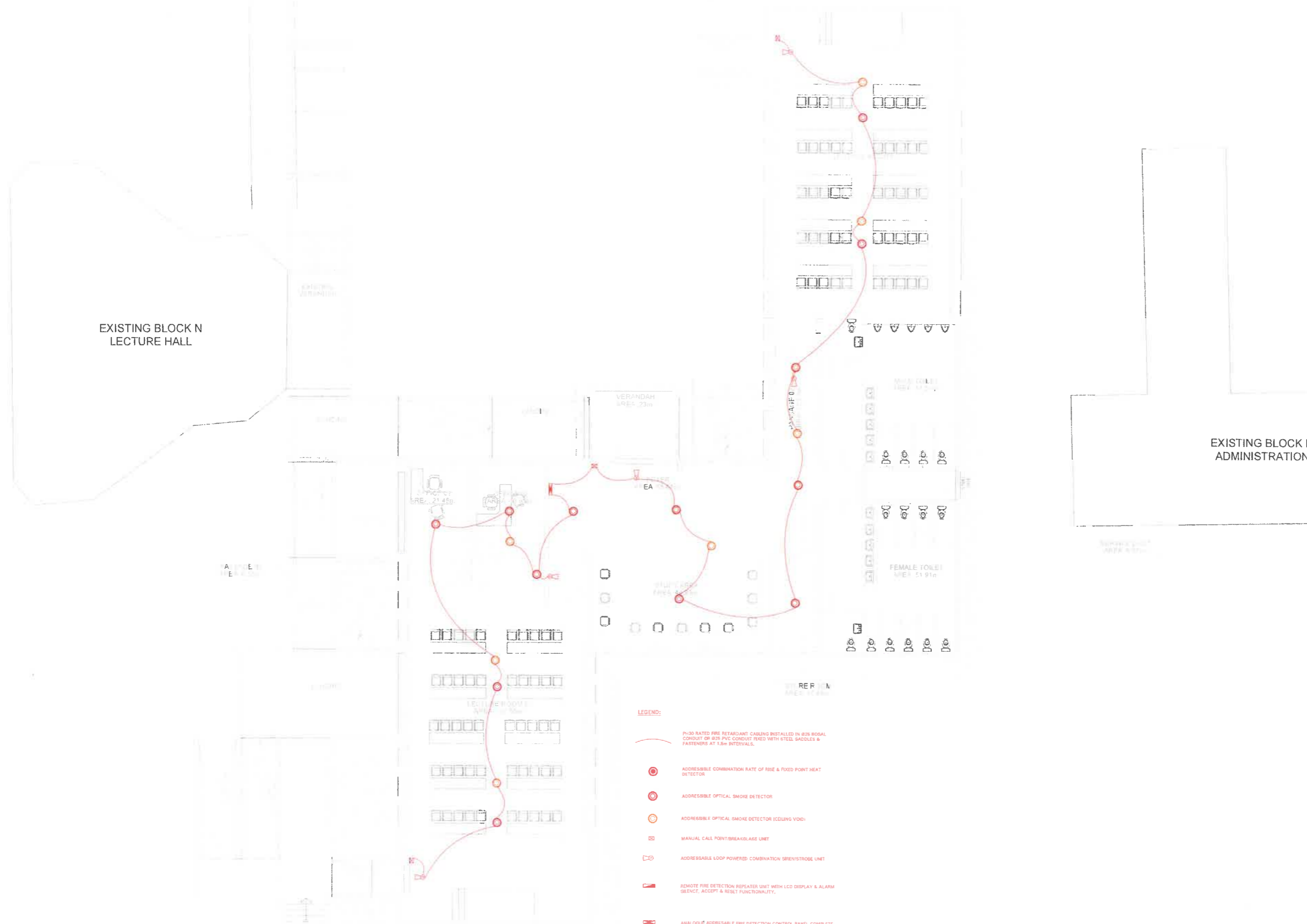
DRAWN	DATE	DESIGNED	DATE
A.MTELELI	JULY 21	A.MTELELI	JULY 21
CHECKED	DATE	APPROVED	DATE
B.MACKENZIE	JULY 21	B.MACKENZIE	JUNE 21



PROJECT
DRDAR - FORT COX LECTURE ROOMS
TWO 50-SEATER LECTURE ROOMS WITH
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DRAWING TITLE
FIRE PROTECTION LAYOUT

DRAWING NUMBER	REV
EL21-03-FP-01	C



- LEGEND:**
- P100 RATED FIRE RETARDANT CABLES INSTALLED IN 82% RIBBON CONDUIT OR 82% PVC CONDUIT FIXED WITH STEEL SADDLES & FASTENERS AT 1.8m INTERVALS.
 - ADDRESSIBLE COMBINATION RATE OF RISE & FIXED POINT HEAT DETECTOR
 - ADDRESSIBLE OPTICAL SMOKE DETECTOR
 - ADDRESSIBLE OPTICAL SMOKE DETECTOR (CEILING VOID)
 - MANUAL CALL POINT/BREAKGLASS UNIT
 - ADDRESSIBLE LOOP POWERED COMBINATION SIRE/STROBE UNIT
 - REMOTE FIRE DETECTION REPLACER UNIT WITH LCD DISPLAY & ALARM SILENCE, ACCEPT & RESET FUNCTIONALITY.
 - ANALOGUE ADDRESSIBLE FIRE DETECTION CONTROL PANEL COMPLETE WITH 2 FIELD DETECTION LINES/LOOPS
 - ADDRESSIBLE RELAY OUTPUT

TENDER DRAWING

NO	DATE	DESCRIPTION	APPROVED
C	AUG 21	ISSUED FOR TENDER	B.M
B	AUG 21	ISSUED FOR MUNICIPAL SUBMISSION	B.M
A	JULY 21	ISSUED FOR MUNICIPAL SUBMISSION	B.M

ROLE	NAME	SIGNATURE	DATE
DRAFTSPERSON	A.MTELELI		
DESIGNER	A.MTELELI		
RESP. ENG.	B.MACKENZIE		

SCALE	SCALE ON REDUCED DRAWING		
1 : 100 ON A1			
DRAWN	DATE	DESIGNED	DATE
A.MTELELI	JULY 21	A.MTELELI	JULY 21
CHECKED	DATE	APPROVED	DATE
B.MACKENZIE	JULY 21	B.MACKENZIE	JULY 21

CLIENT

Province of the
EASTERN CAPE
RURAL DEVELOPMENT &
AGRARAIN REFORM

ELECTRICAL/MECHANICAL ENGINEERS

AKM & ASSOCIATES
consulting electrical & mechanical engineers
& project managers

GREEN BUILDING COUNCIL

PROJECT

**DRDAR - FORT COX LECTURE ROOMS
TWO 50-SEATER LECTURE ROOMS WITH
STUDY AREA AND ABLUTIONS AT THE FORT
COX COLLEGE OF AGRICULTURE**

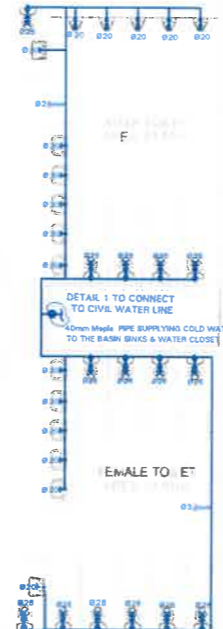
DRAWING TITLE

FIRE DETECTION LAYOUT

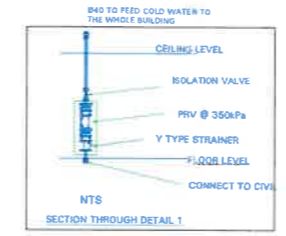
DRAWING NUMBER	REV
EL21-03-FD-01	C

EXISTING BLOCK N
LECTURE HALL

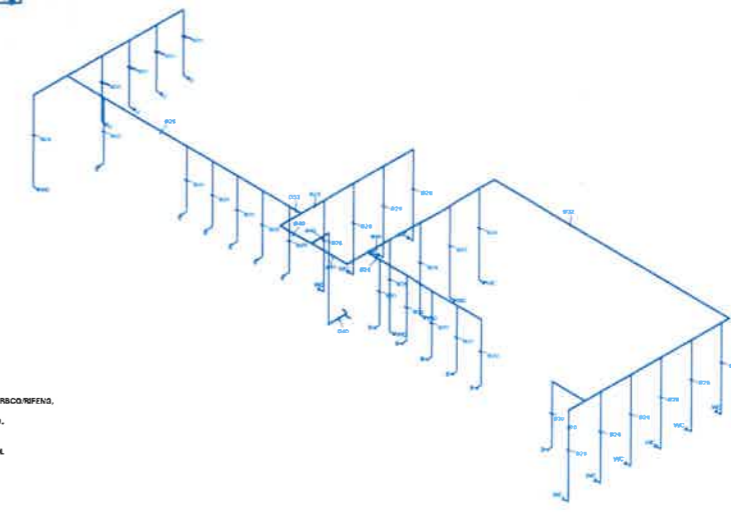
EXISTING BLOCK M
ADMINISTRATION



- LEGEND:**
- B - BASIN
 - WC - WATER CLOSET
 - COLD WATER (CW)
 - HOT WATER
 - ISOLATION VALVE
 - VACUUM BREAKER
 - PRESSURE CONTROL VALVE
 - NON - RETURN VALVE



- NOTES:**
1. ALL PLUMBING PIPING INSIDE THE BUILDING SHALL BE MELANERSCOMPENG.
 2. ALL PLUMBING PIPING OUTSIDE THE BUILDING SHALL BE MELANERSCOMPENG OR EQUAL APPROVED.
 3. PIPES TO BE IN ACCORDANCE WITH SANS 15874 PARTS 2,3 & 5.
 4. INSTALLATION TO COMPLY WITH SANS 10252-1.
 5. INSTALL 50mm THICK NON CONDUCTIBLE LIGHTWEIGHT GLASSWOL.



TENDER DRAWING

NO	DATE	DESCRIPTION	APPROVED
C	AUG 21	ISSUED FOR TENDER	B.M
B	AUG 21	OMITTED HOT WATER	B.M
A	AUG 21	ISSUED FOR MEASURING	B.M

ROLE	NAME	SIGNATURE	DATE
DRAFTSPERSON	A.MTELELI		
DESIGNER	A.MTELELI		
RESP. ENG.	B.MACKENZIE		

SCALE: SCALE ON REDUCED DRAWING

SCALE	SCALE ON REDUCED DRAWING
1 : 100 ON A1	50mm ON ORIGINAL DRAWING

CLIENT

Province of the
EASTERN CAPE
RURAL DEVELOPMENT &
AGRARAIN REFORM

ELECTRICAL/MECHANICAL ENGINEERS

AKM & ASSOCIATES
consulting electrical & mechanical engineers
& project managers

GREEN BUILDING COUNCIL

PROJECT

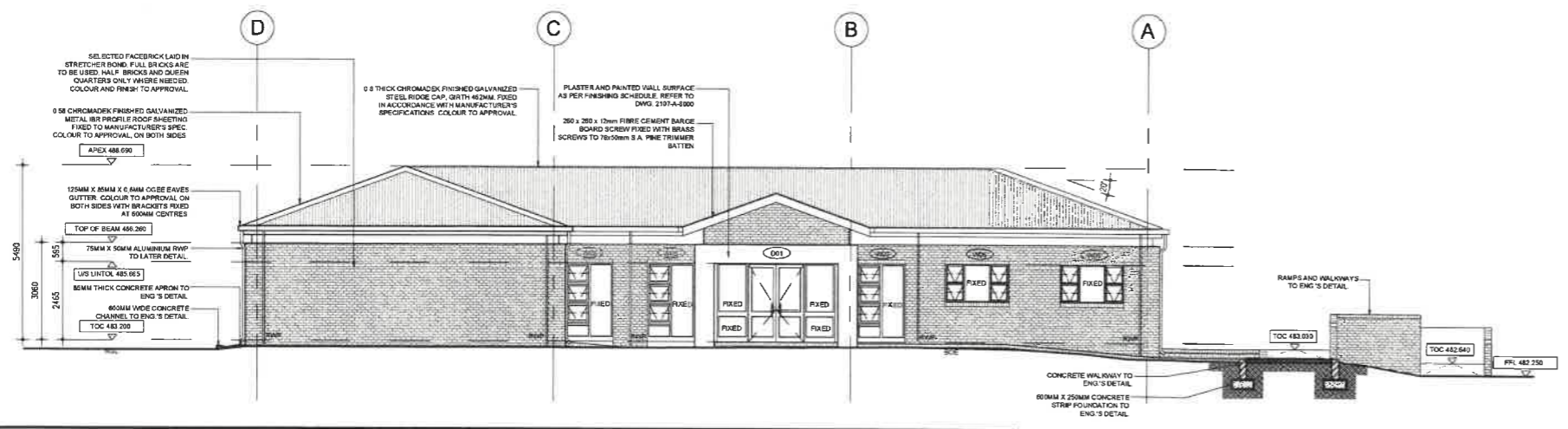
DRDAR - FORT COX LECTURE ROOMS
TWO 50-SEATER LECTURE ROOMS WITH
STUDY AREA AND ABLUTIONS AT THE FORT
COX COLLEGE OF AGRICULTURE

DRAWING TITLE

DOMESTIC WATER LAYOUT

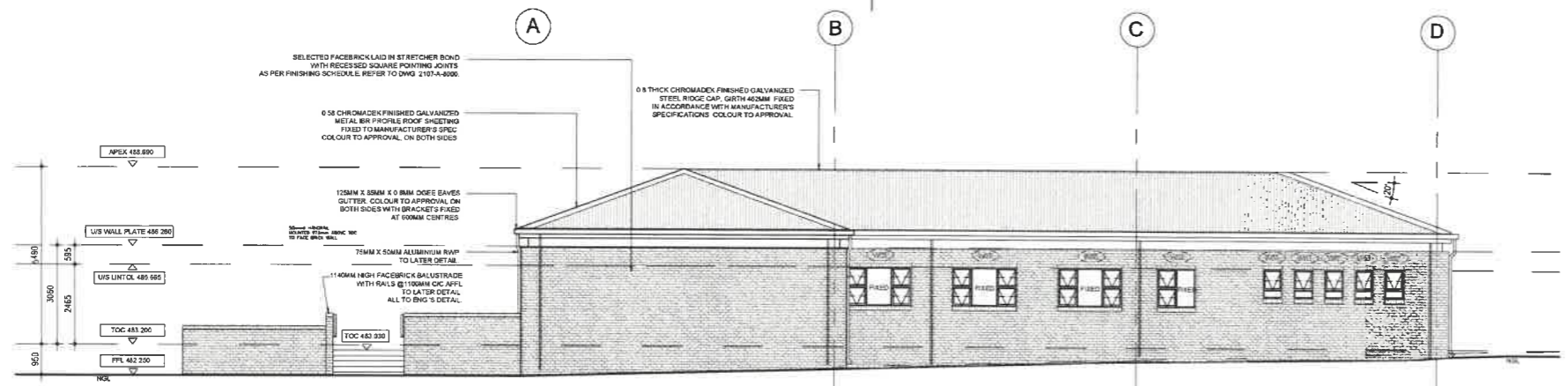
DRAWING NUMBER	REV
EL21-03-DW-01	C

NO.	DATE	REVISION	FOR
A	2021/08/06	FOR APPROVAL	FA



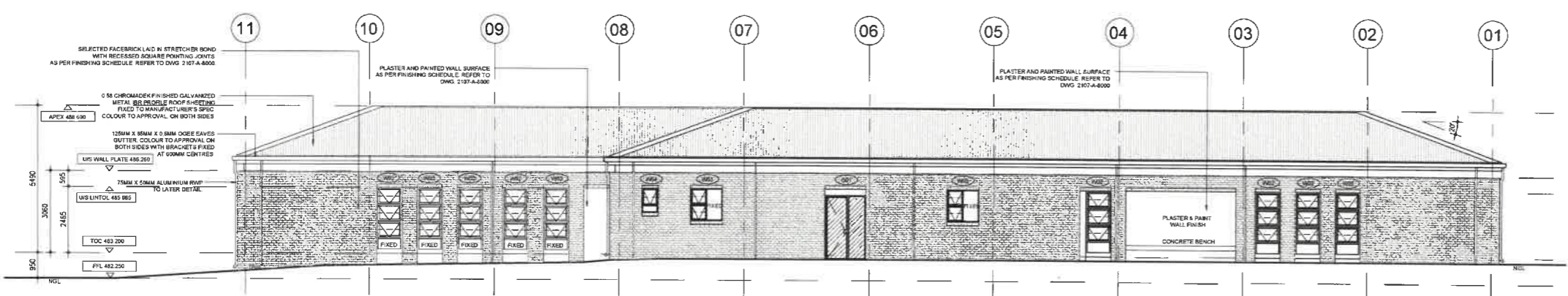
TITLE NORTH ELEVATION

Scale: 1:100



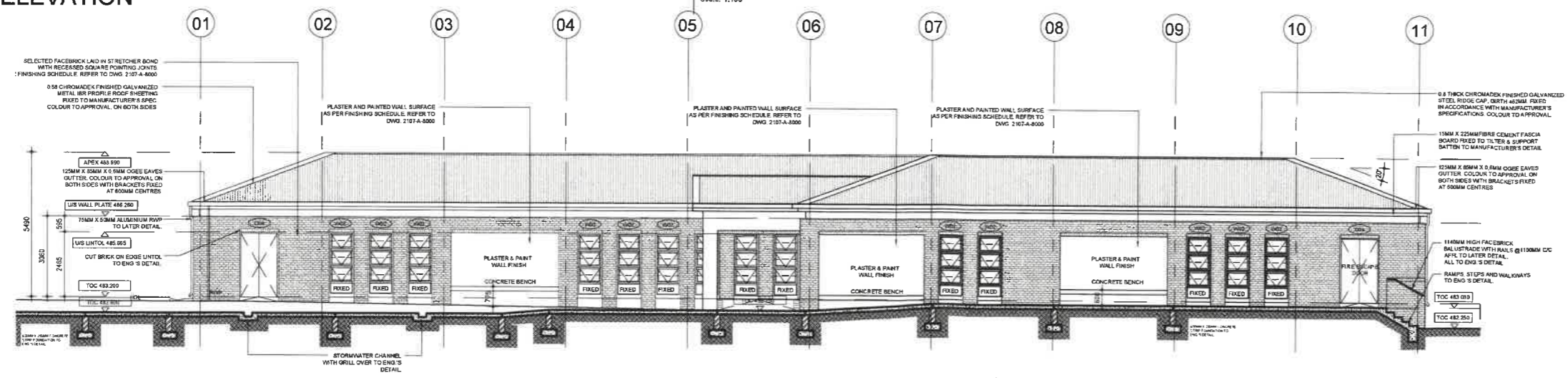
TITLE SOUTH ELEVATION

Scale: 1:100



TITLE EAST ELEVATION

Scale: 1:100



TITLE WEST ELEVATION

Scale: 1:100

DRAWING TYPE	
STAGE 4.2 (DOCUMENTATION & PROCUREMENT)	
TENDER DOCUMENTATION	

CONSULTANT	
miso	
architects interior designers property developers	
25 Via Donato Camdeboo Road Craigavon South Africa	
+27 8328 8095 www.miso.com	

DISCIPLINE	
ARCHITECTURE	

PROFESSIONAL CONSULTANT NAME	MILISANI MANASOE
PROFESSIONAL REGISTRATION NUMBER	PR ARCH 20715

SIGNATURE	
-----------	--

DATE	2021/08/11
------	------------

DESIGNED	
DRAWN	
DATE	

CLIENT	
	

SIGNATURE	
DATE	
DESIGNATION	

PROJECT	
DRDAR - FORT COX LECTURE ROOMS	
TWO 50-SEATER LECTURE ROOMS WITH STUDY AREA AND ABLUTIONS AT THE FORT COX COLLEGE OF AGRICULTURE	

PROVINCE:	EASTERN CAPE PROVINCE
-----------	-----------------------

DRAWING TITLE	
NORTH, SOUTH, EAST AND WEST ELEVATIONS	

STAND COORDINATES	
-32.74500895161148, 27.026812444310014	

PROJECT NUMBER	DISCIPLINE	DRAWING NUMBER	STATUS	REV.
SCMUB-21/22-0095	A	2107-A-4000	FA	A