

**GENERAL NOTE:**  
 DUE TO CLOSE PROXIMITY TO THE ENTRANCE BATHROOM 1, 2, 6 AND 7 ARE GOOD DISPLAY OPTIONS FOR NO MIX TOILETS AND WATERLESS URINALS. LOGISTICALLY HOWEVER PLACING A TANK NEAR THESE BATHROOMS IS DIFFICULT. BATHROOMS 3, 4 AND 5 ALLOW FOR EASIER LOGISTICS WITH THE INSTALLATION OF A URINE SEPARATION SYSTEM.  
 SHOULD THERE BE INTEREST IN OFF-GRID WASTEWATER TREATMENT SYSTEMS THEN A SIMILAR SYSTEM CAN BE INCORPORATED FOR THE OTHER BATHROOMS AS WELL.

**NOTE: 1\***  
 CARPET TO BE LIFTED AND EXPOSED WOODEN FLOORS TO BE SANDED AND SEALED

**NOTE: 2**  
 CONSTRUCTION AND INSTALLATION OF URINE SEPARATION SYSTEM FROM BATHROOM 3, 4 AND 5. URINE TO BE CONVEYED TO UNDERGROUND TANK VIA 110mm UPVC DIAMETER PIPE.  
 1.25m<sup>3</sup> UNDERGROUND TANK TO INCLUDE SCREW LID. UNDERGROUND TANK TO INCLUDE CONNECTION FOR 110mm UPVC INLET AND OUTLET.  
 OUTLET TO LINK WITH THE CONVENTIONAL 100mm DIA UPVC SEWER PIPE.

**NOTE: 3**  
 EXISTING PAVING TO BE REMOVED AND REPLACED WITH 200 x 200 x 70mm THICK FINE EXPOSED AGGREGATE NON-SLIP PAVERS.

**NOTE: 4**  
 ALL NEW URINALS TO BE WATERLESS

**NO MIX TOILET SPECIFICATION:**  
 CERAMIC NO MIX TOILET WITH HIDDEN URINE SEPARATION MECHANISM. INCLUDING WC, STAINLESS STEEL PRESSURE PLATE, SEAT AND CONCEALED CISTERNE.

**PLAN LAYOUT**  
 SCALE 1:100

**FOR INFORMATION**

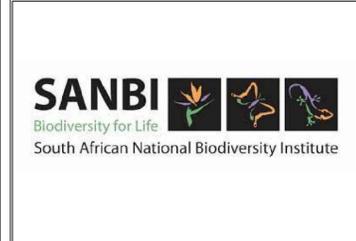
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 0534-01-01\_0\_GOLDFIELDS BUILDING PLAN  
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**A1**



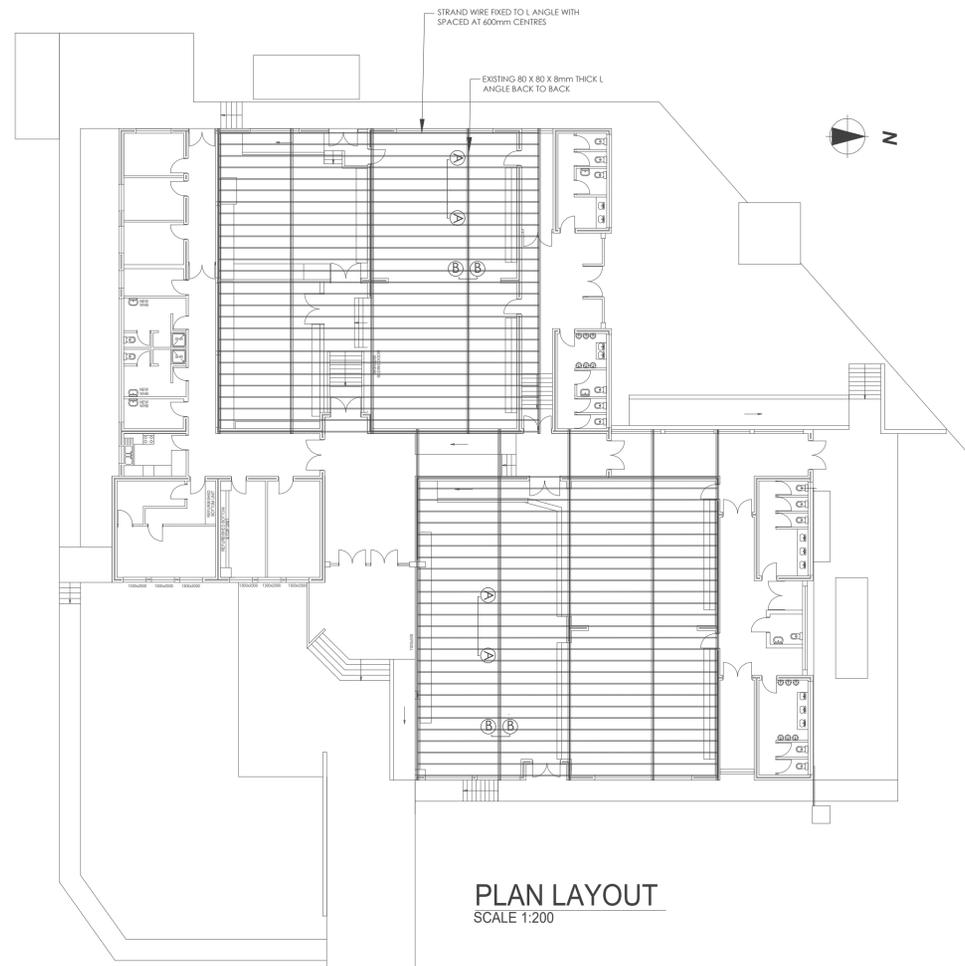
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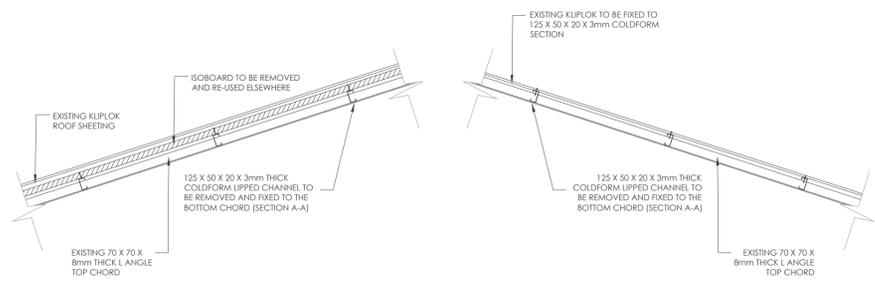
project number  
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 drawing title  
**GOLDFIELDS BUILDING  
 LAYOUT**

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 scale NTS  
 date OCT'21  
 drawing number  
 designed R ISHMAIL  
 drawn K JURIES  
 checked JA WILSENACH

0534/01/01 **D2**

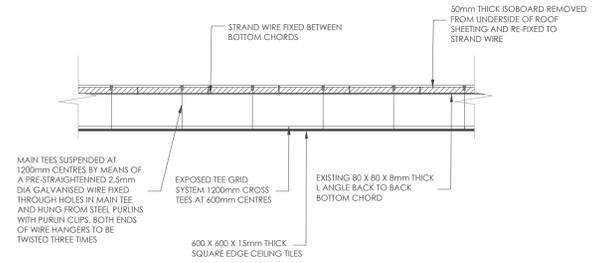


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SCALE 1:200



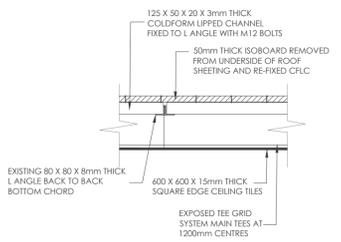
**TOP CHORD DETAIL BEFORE**  
SCALE 1:30

**TOP CHORD DETAIL AFTER**  
SCALE 1:30



**SECTION A-A**  
SCALE 1:30

MAIN TEES SUSPENDED AT 1200mm CENTRES BY MEANS OF A PRE-STRAIGHTENED 2.5mm DIA GALVANISED WIRE FIXED THROUGH HOLES IN MAIN TEE AND HUNG FROM STEEL PURLINS WITH PURLIN CLIPS. BOTH ENDS OF WIRE HANGERS TO BE TWISTED THREE TIMES



**SECTION B-B**  
SCALE 1:30

- Notes:
1. ISOBOARD TO BE REMOVED FROM UNDERSIDE OF ROOF SHEETING.
  2. ROOF SHEETING TO BE FIXED AGAIN TO 175 X 50 X 20 X 3mm COLD FORM SECTION PURLIN
  3. STRAND WIRE TO BE FIXED BETWEEN 80 X 80 X 8mm ANGLES.
  4. ISOBOARD TO BE RE-USED AND FIXED ABOVE STRAND WIRES. SUSPENDED CEILING TO BE FIXED TO 80 X 80 X 8mm L ANGLE.

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drawing title: **CEILING PLAN LAYOUT**

ref. no.: \_\_\_\_\_ designed: R SAMSODIEN  
scale: AS SHOWN drawn: R SAMSODIEN  
date: OCT'21 checked: S ISHMAIL  
drawing number: \_\_\_\_\_ revision: \_\_\_\_\_

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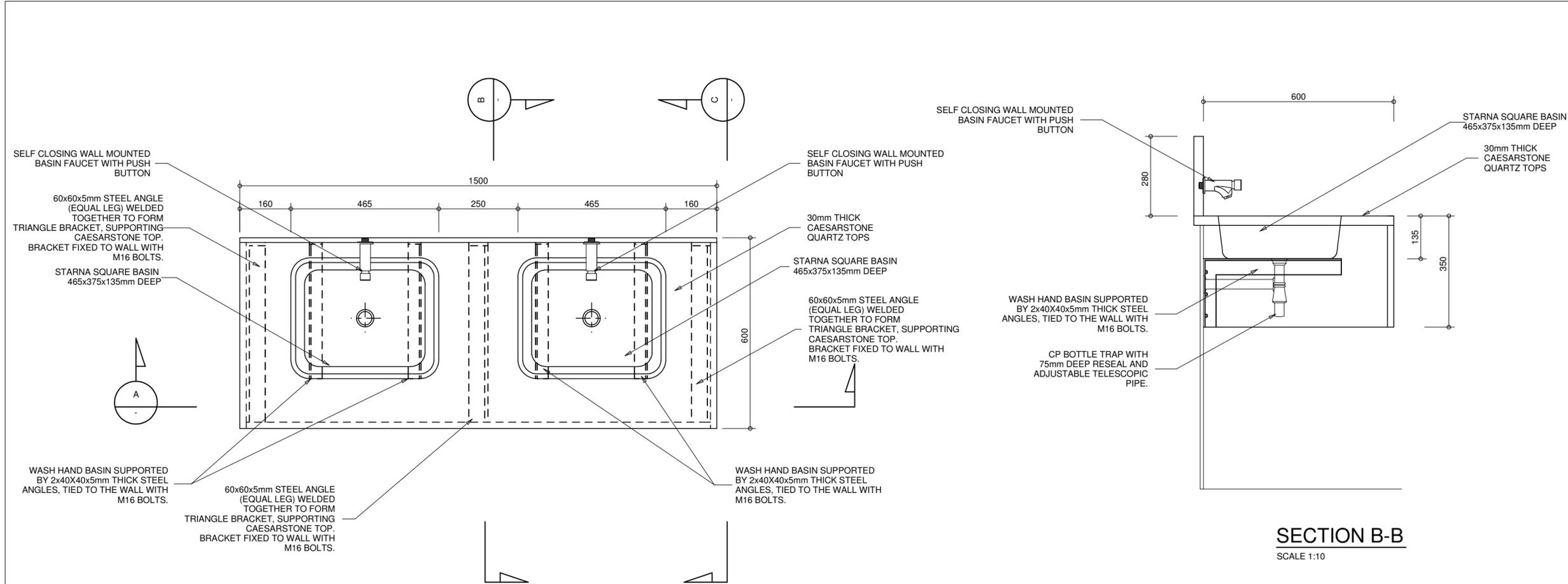
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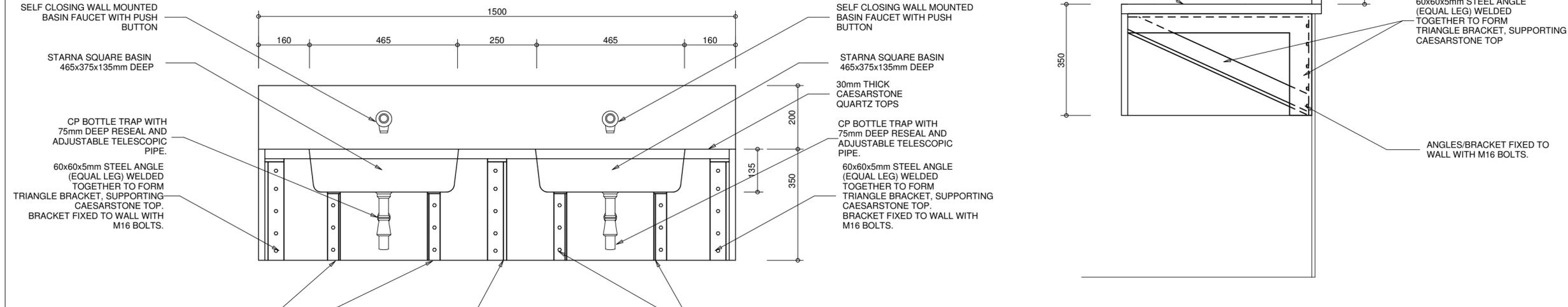
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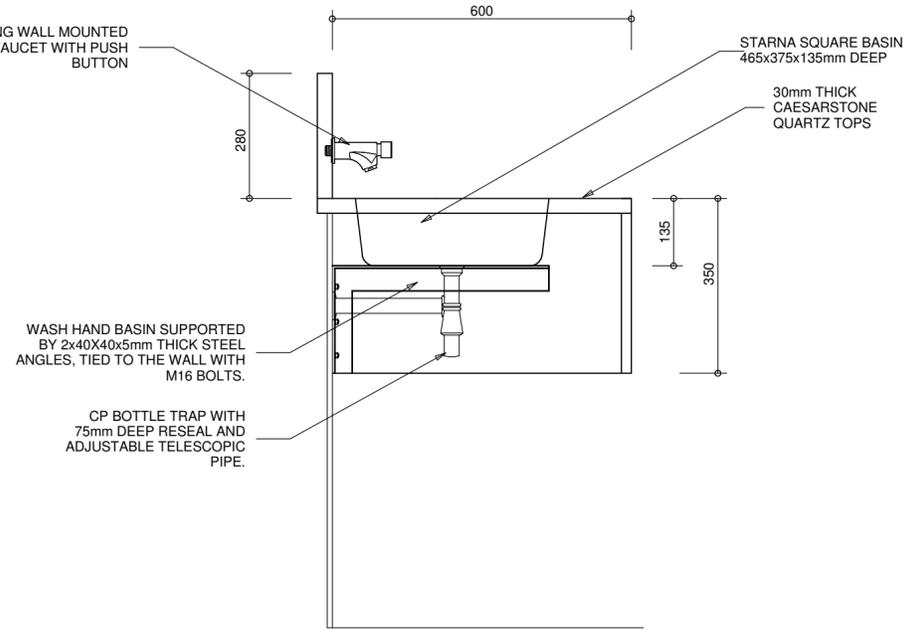
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drawing title	revision
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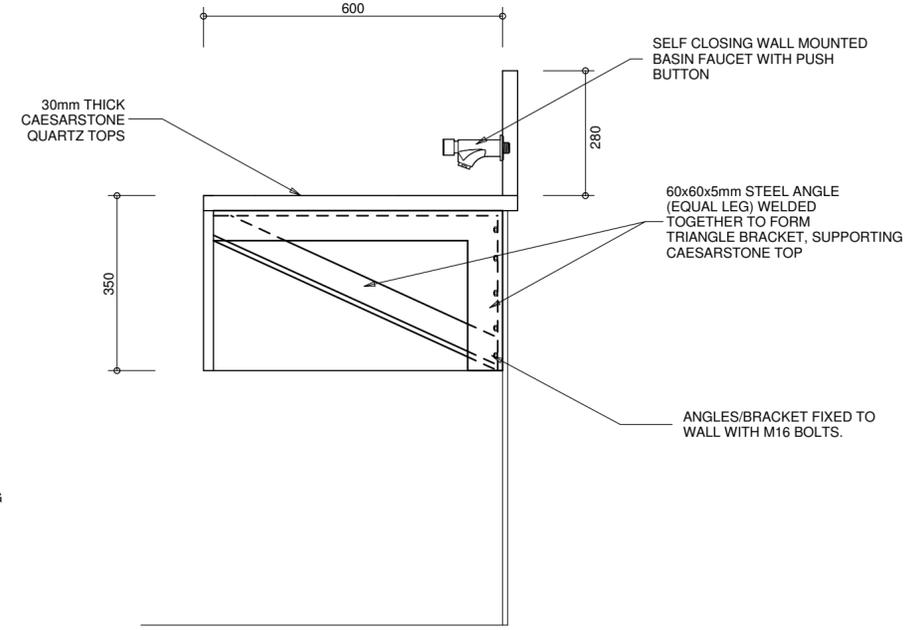
**PLAN VIEW**  
SCALE 1:10



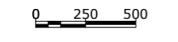
**SECTION A-A**  
SCALE 1:10



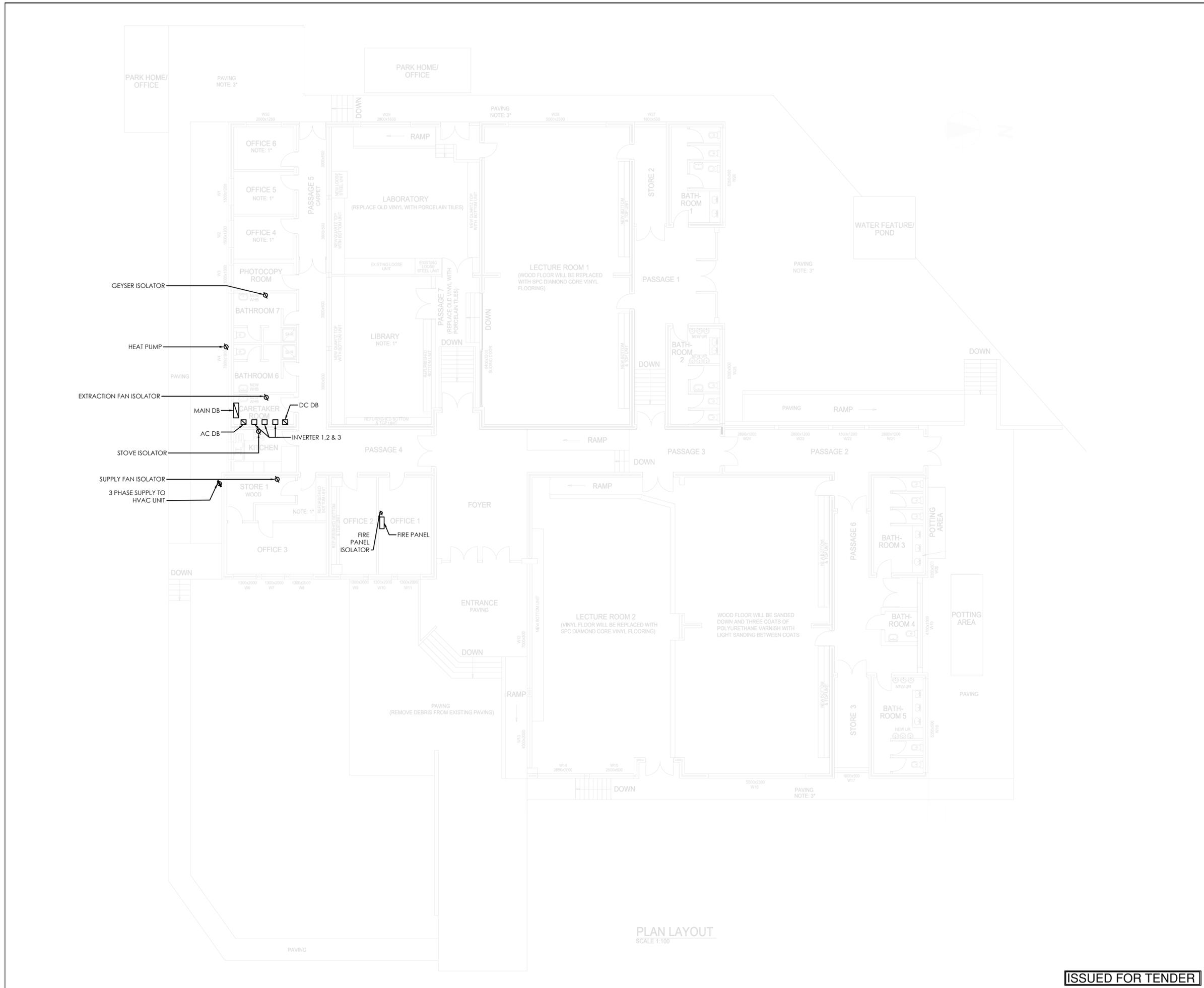
**SECTION B-B**  
SCALE 1:10



**SECTION C-C**  
SCALE 1:10



FOR INFORMATION



- GEYSER ISOLATOR
- HEAT PUMP
- EXTRACTION FAN ISOLATOR
- MAIN DB
- AC DB
- STOVE ISOLATOR
- SUPPLY FAN ISOLATOR
- 3 PHASE SUPPLY TO HVAC UNIT
- CARETAKER ROOM
- DC DB
- INVERTER 1, 2 & 3
- FIRE PANEL ISOLATOR
- FIRE PANEL

No.	DATE	AMENDMENT	INIT.

LEGEND	
	SINGLE PHASE 30A DOUBLE POLE ISOLATOR
	THREE PHASE ISOLATOR

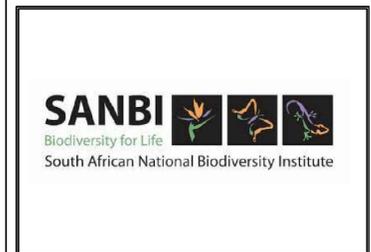
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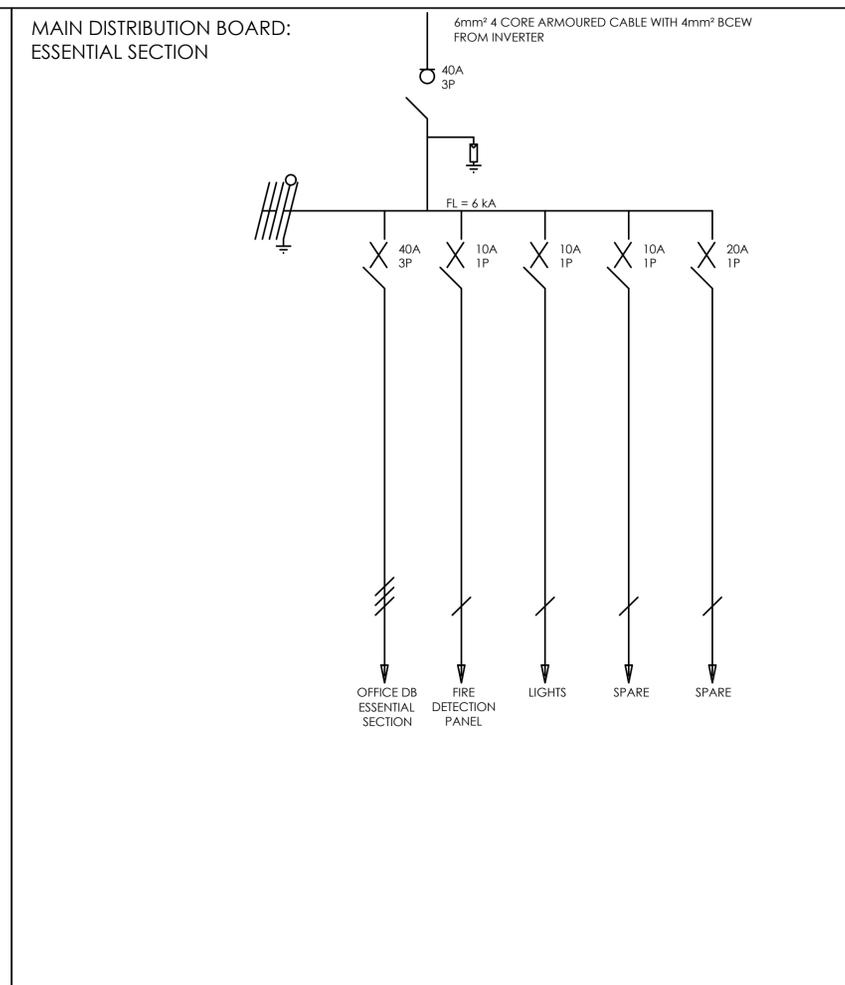
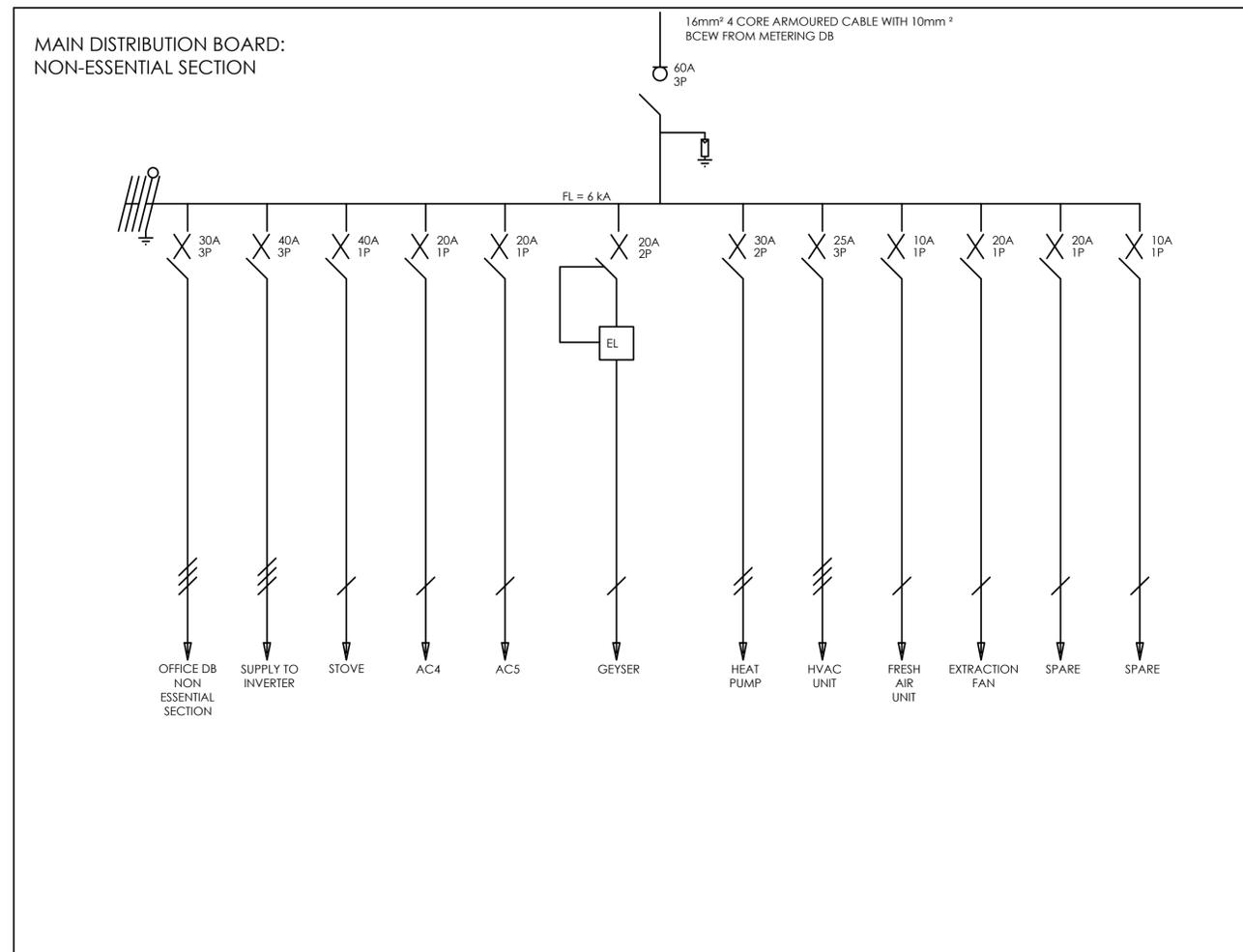
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**GOLDFIELDS BUILDING  
 POWER LAYOUT**

ref.no. .. designed J MALAN  
 scale 1:100 drawn L TALJAARD  
 date APR'25 checked J MALAN  
 drawing number

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0534-03-03 0

GENERAL NOTES	LEGEND	
1. SURFACE MOUNTED MAIN DISTRIBUTION BOARD 2. COLOUR : FACE PLATE AND FRAME - ELEC ORANGE SABS B26. ESSENTIAL SECTION YELLOW 3. FACE PLATE TO HAVE HANDLES AND BE SECURED WITH PERANO SUARE CATHES. 4. SWITCHGEAR TO BE OF CBI OR EQUAL AND APPROVED MANUFACTURE 5. LABELLING TO BE THE ENGRAVED TYPE AND BE 20 MM HIGH 6. COPPER BUSBAR SIZING : 1,5 mm A / SQ MAXIMUM 7. EARTH BAR MUST EXTEND FOR FULL WIDTH OF DB	CONTACTOR (NUMBER OF POLES INDICATED BY "X" AND RATING BY "Y")  EARTH WIRE CONNECTED TO EARTH BAR - NOTE SPEC  CLIPON RSF 1 TERMINAL WITH LABEL  22 mm Ø LED PANEL INDICATOR LAMP  SELECTOR SWITCH  FUSE HOLDER (LABELLED)  SOFT STARTER	REMOTE DAYLIGHT SWITCH WITH BYPASS SELECTOR SWITCH ON DB  BUSBARS REQUIRED FOR A SINGLE PHASE SYSTEM, NEUTRAL AND EARTH  BUSBARS REQUIRED FOR A THREE PHASE SYSTEM, NEUTRAL AND EARTH  ISOLATOR (NUMBER OF POLES INDICATED BY "X" AND RATING BY "Y")  CIRCUIT BREAKER (NUMBER OF POLES INDICATED BY "X" AND RATING BY "Y")  LIGHTNING ARRESTOR - NOTE EARTH CONDUCTOR SPEC  EARTH LEAKAGE UNIT (NUMBER OF POLES INDICATED BY "X" AND RATING BY "Y")



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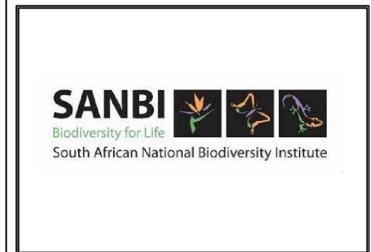
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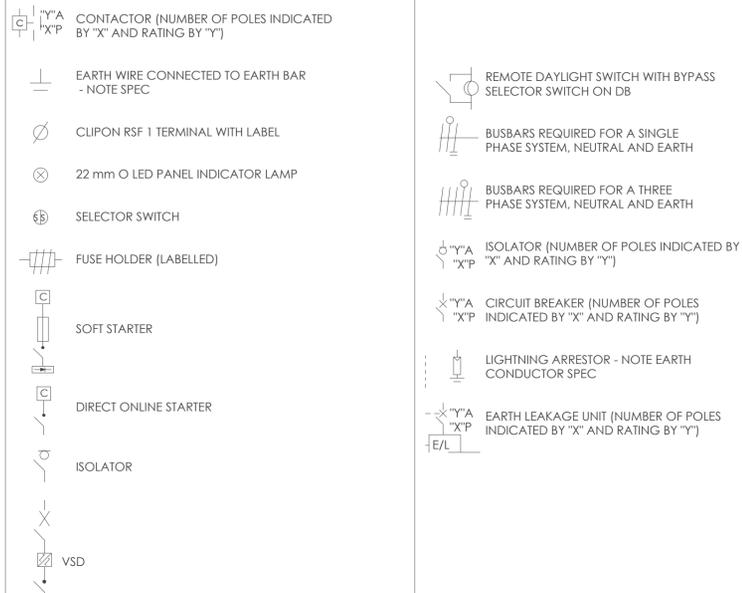
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**GENERAL NOTES**

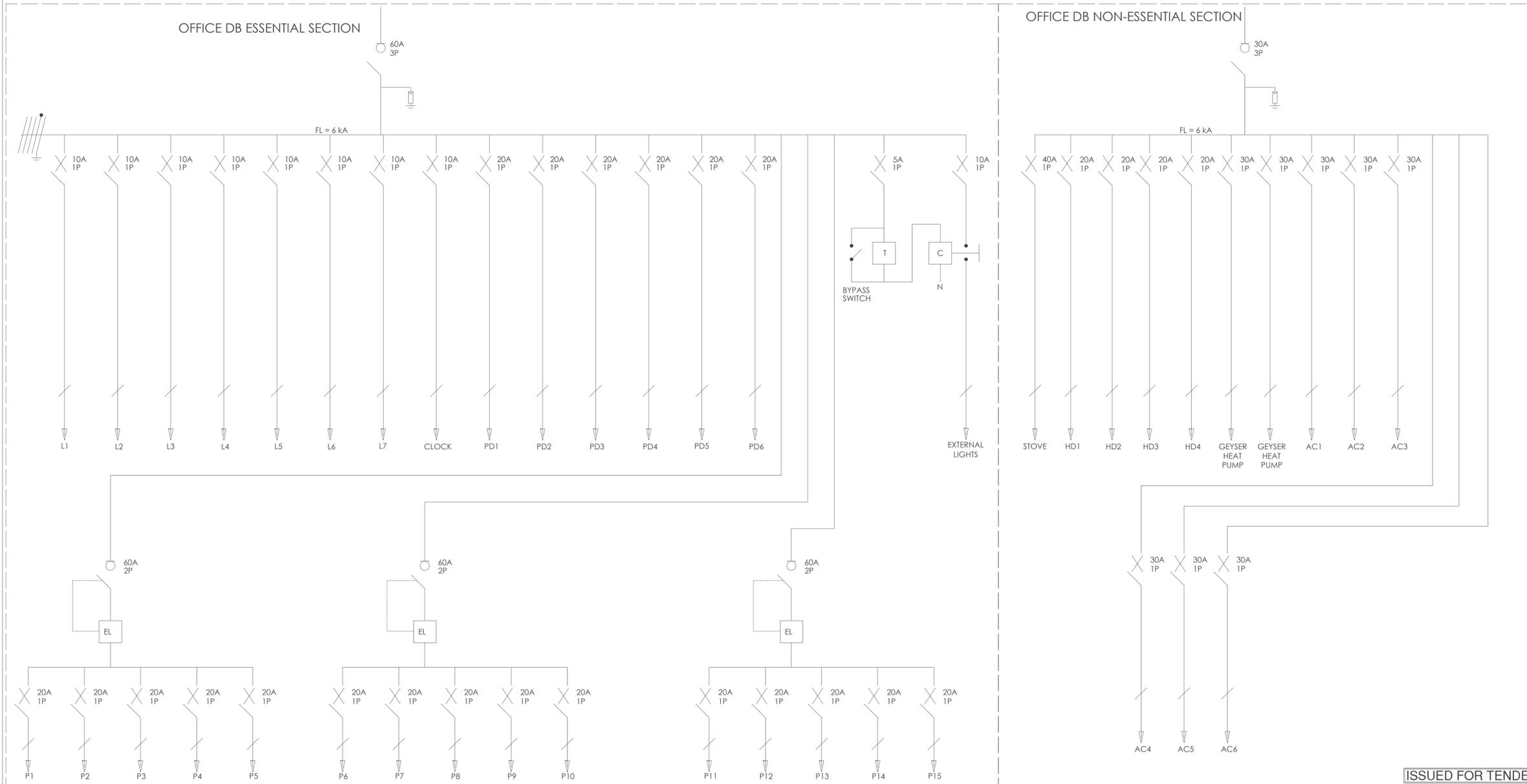
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2. COLOUR : FACE PLATE AND FRAME - ELEC ORANGE SABS B26
3. FACE PLATE TO HAVE HANDLES AND BE SECURED WITH PERANO SQUARE CATHES.
4. SWITCHGEAR TO BE OF CBI OR EQUAL AND APPROVED MANUFACTURE
5. LABELLING TO BE THE ENGRAVED TYPE AND BE 20 MM HIGH
6. COPPER BUSBAR SIZING : 1,5 mm A / SQ MAXIMUM
7. EARTH BAR MUST EXTEND FOR FULL WIDTH OF DB

**LEGEND**



**OFFICE DB ESSENTIAL SECTION**

**OFFICE DB NON-ESSENTIAL SECTION**



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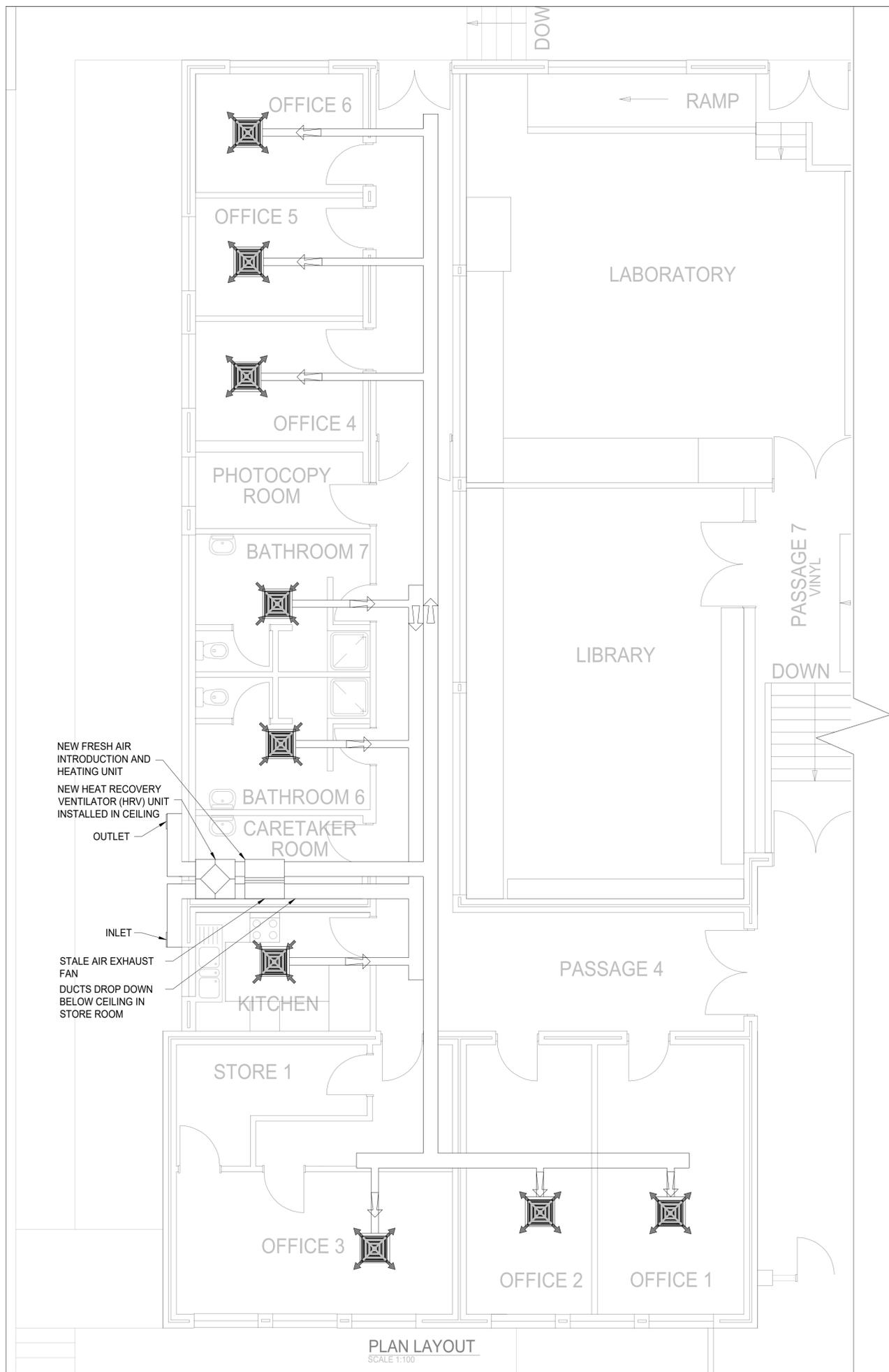
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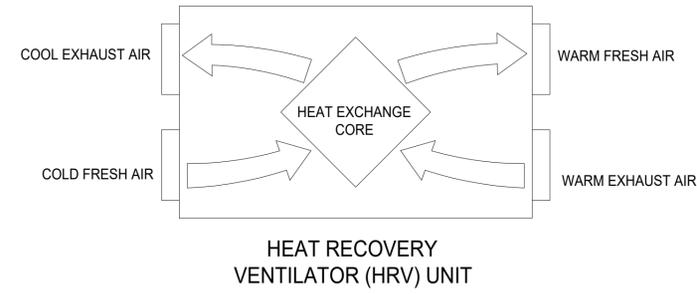
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0534-03-05



PLAN LAYOUT  
SCALE 1:100



OPTION 1: FULL COMPLIANCE WITH SANS 10400 PART O IN FULL

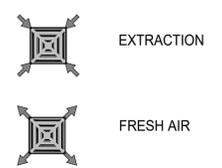
INTERNAL	DIM 1	DIM 2	DIM 3	HEIGHT	FLOOR AREA	AREA CLASSIFICATION SANS 10400 PART O: TABLE 2	AIR CHANGES REQUIRED	VOLUME AIR (m³/h)	VIRGIN SUPPLY	NON- VIRGIN SUPPLY	TOTAL SUPPLY (m³/h)	EXHAUST (m³/h)	RATE (m³/h)	TOTAL EXHAUST (m³/h)
OFFICE 1	3,0	5,5	16,9	3,3	16,2	OFFICE	2,0	106,9	X		106,9			
OFFICE 2	2,5	5,5	16,0	3,3	13,9	OFFICE	2,0	91,6	X		91,6			
OFFICE 3	2,9	5,6	17,0	3,3	16,2	OFFICE	2,0	106,6	X		106,6			
OFFICE 4	3,4	2,4	11,6	3,3	8,2	OFFICE	2,0	54,1	X		54,1			
OFFICE 5	3,4	2,4	11,6	3,3	8,1	OFFICE	2,0	53,5	X		53,5			
OFFICE 6	3,4	2,4	11,6	3,3	8,2	OFFICE	2,0	53,8	X		53,8			
STORE 1	5,6	2,4	16,1	3,3	13,7	OFFICE	2,0	90,4		X				
KITCHEN	2,4	3,5	11,9	3,3	8,5	KITCHEN (PRIVATE/DWELLING)	10,0	280,3		X		X	10,0	280,3
PHOTOCOPY ROOM	1,5	3,4	9,9	3,3	5,2	OFFICE	2,0	34,6		X				
BATHROOM 6	2,7	3,5	12,4	3,3	9,5	BATHROOM	10,0	313,2		X		X	10,0	313,2
BATHROOM 7	2,8	3,5	12,6	3,3	9,8	BATHROOM	10,0	323,4		X		X	10,0	323,4
PASSAGE 4	15,5	2,4	35,7	3,3	37,1	OFFICE	2,0	244,8	x		244,8			
<b>TOTAL</b>											<b>711,437694</b>			<b>916,909488</b>

Min Air flow (Exhaust dominant)	916,9	m³/h		
Duct diameter	300,0	mm		
Area in duct	0,1	m²		
Speed of air in duct	3,6	m/s	<4,0	m/s

OPTION 2: PARTIAL COMPLIANCE WITH SANS 10400 PART O IN FULL

INTERNAL	AREA CLASSIFICATION SANS 10400 PART O: TABLE 2	MIN AIR (l/s)	VOLUME AIR (m³/h)	VIRGIN SUPPLY	NON- VIRGIN SUPPLY	TOTAL SUPPLY (m³/h)
OFFICE 1	SINGLE PERSON	7,5	27,0	X		27,0
OFFICE 2	SINGLE PERSON	7,5	27,0	X		27,0
OFFICE 3	SINGLE PERSON	7,5	27,0	X		27,0
OFFICE 4	SINGLE PERSON	7,5	27,0	X		27,0
OFFICE 5	SINGLE PERSON	7,5	27,0	X		27,0
OFFICE 6	SINGLE PERSON	7,5	27,0	X		27,0
STORE 1	SINGLE PERSON	7,5	27,0	x		27,0
KITCHEN	SINGLE PERSON	7,5	27,0	x		27,0
PHOTOCOPY ROOM	SINGLE PERSON	7,5	27,0		X	
BATHROOM 6	BATHROOM	-	313,2		X	
BATHROOM 7	BATHROOM	-	323,4		X	
PASSAGE 4	SINGLE PERSON	7,5	27,0	x		27,0
<b>TOTAL</b>						<b>243</b>

Min Air flow (fresh air dominant)	243,0	m³/h		
Duct diameter	300,0	mm		
Area in duct	0,1	m²		
Speed of air in duct	1,0	m/s	<4,0	m/s



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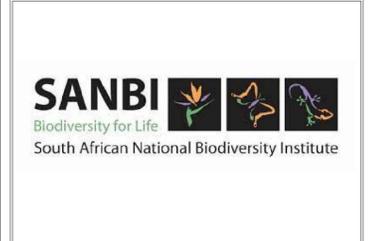
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drawing title  
**GOLDFIELDS BUILDING HVAC**

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drawing number . . . . .

designed D UYS  
drawn D UYS  
checked JA WILSENACH

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