

No.	DATE	AMENDMENT	INIT.
D1	OCT21	ISSUED FOR INFORMATION	RI

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as-built drawings

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Archive AS-BUILT DRAWING REQUIREMENTS

name: N/A

date: N/A

professional registration no.: N/A

cad file name	page type
0534-01-01_0_GOLDFIELDS BUILDING PLAN LAYOUT 2024	A1



P O BOX 323  
GROENKLOOF  
0027

**VIRTUAL**  
CONSULTING ENGINEERS

discipline

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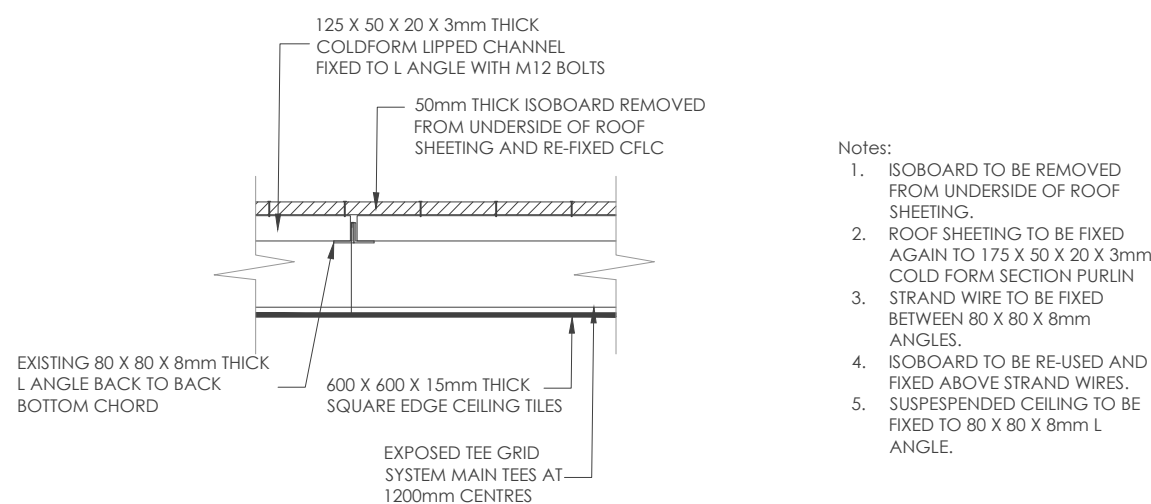
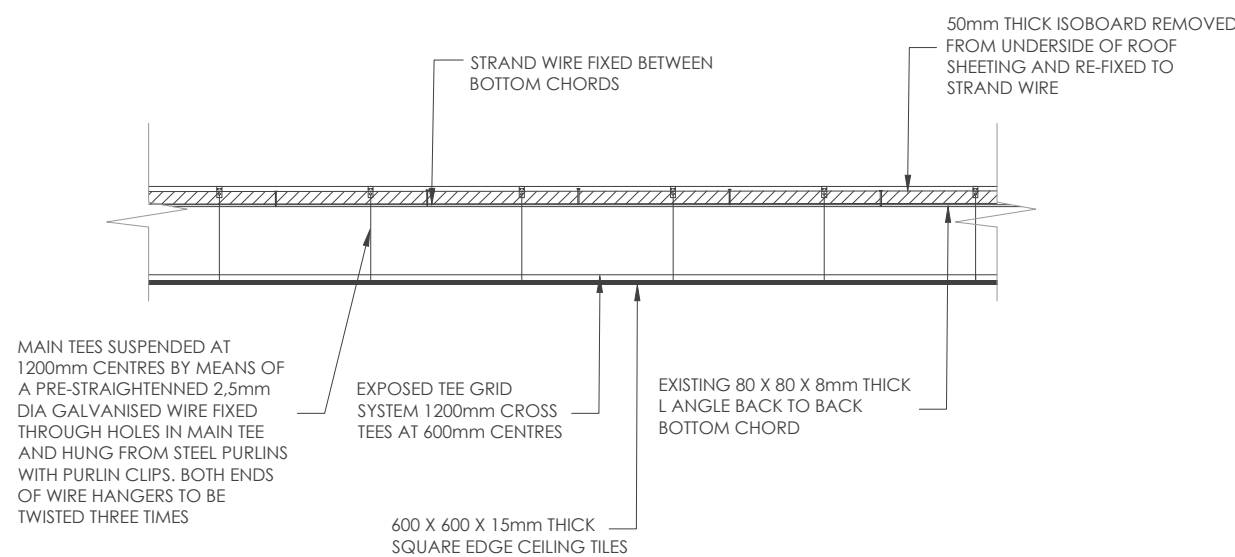
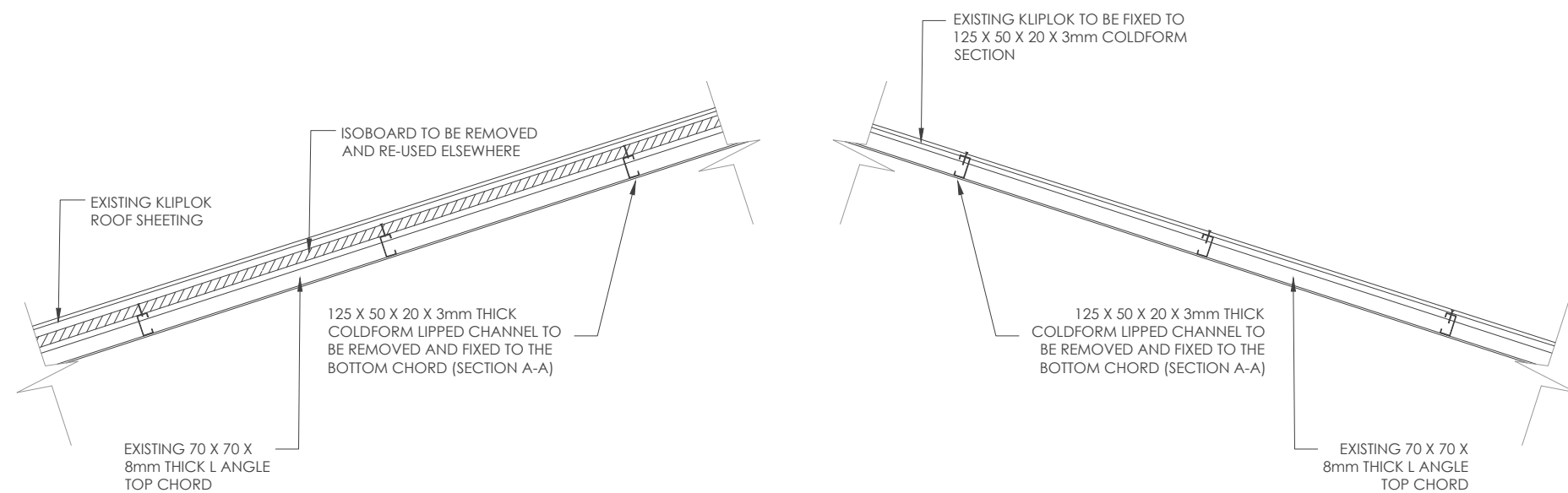
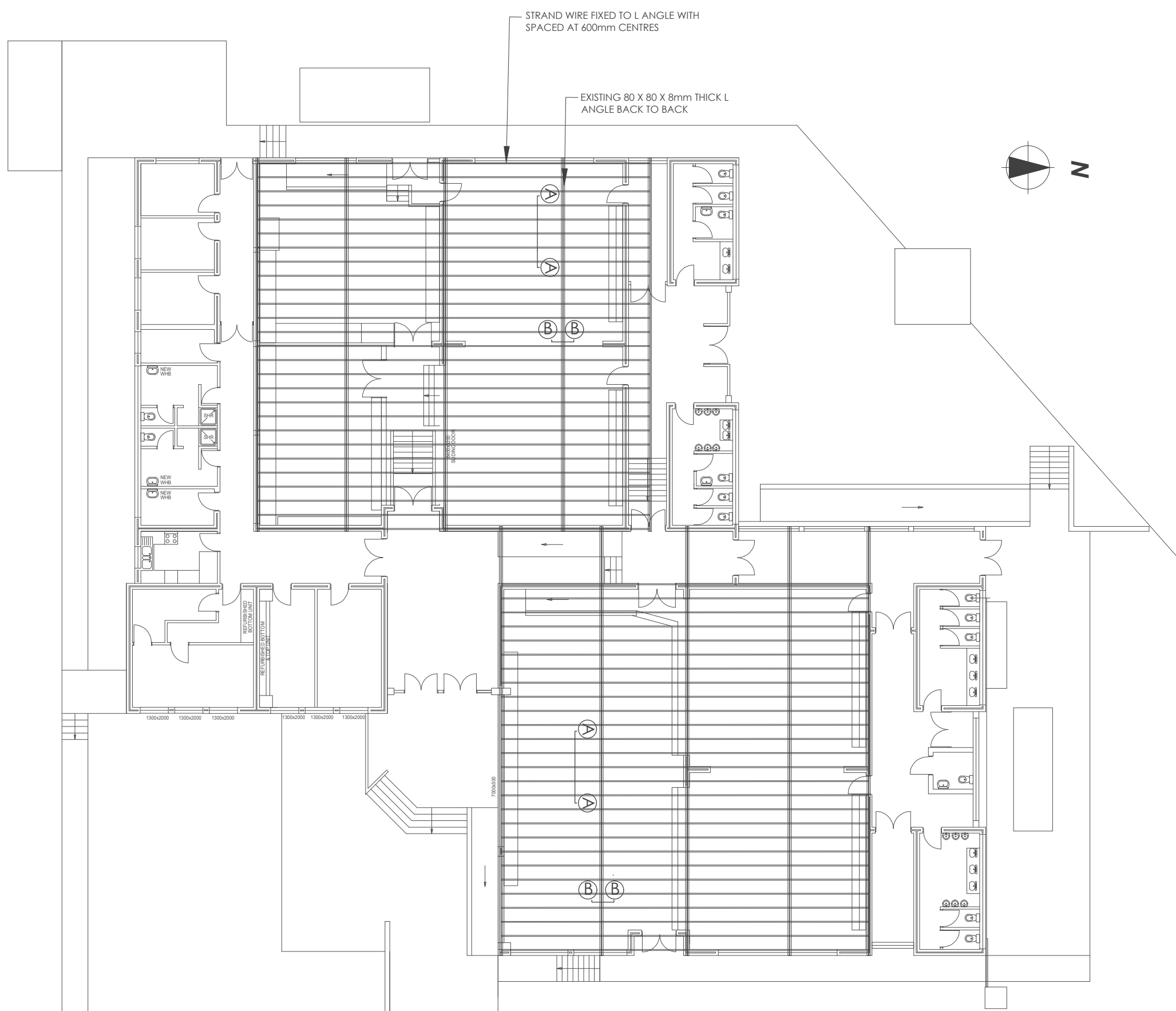
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MONITORING FOR THE  
RENOVATION WORK TO THE  
GOLD FIELDS EDUCATION  
CENTRE

project number	N/A
drawing title	GOLDFIELDS BUILDING LAYOUT

ref.no.		designed	R ISHMAIL
scale	NTS	drawn	K JURIES
date	OCT'21	checked	JA WILSENACH
drawing number			

0534/01/01 (D2)



- 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.
  5. SUSPENDED CEILING TO BE FIXED TO 80 X 80 X 8mm L ANGLE.

FOR INFORMATION

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date: N/A

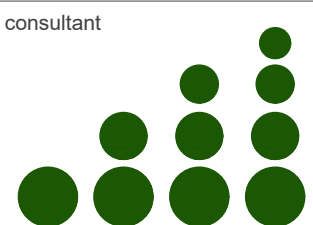
professional registration no.: N/A

cad file name  
0534-02-02 GOLDFIELDS CEILING PLAN LAYOUT

page type  
A1

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CENTRE**

project number  
N/A

drawing title  
**CEILING PLAN LAYOUT**

ref.no. \_\_\_\_\_ designed **R SAMSODIEN**

scale **AS SHOWN** drawn **R SAMSODIEN**

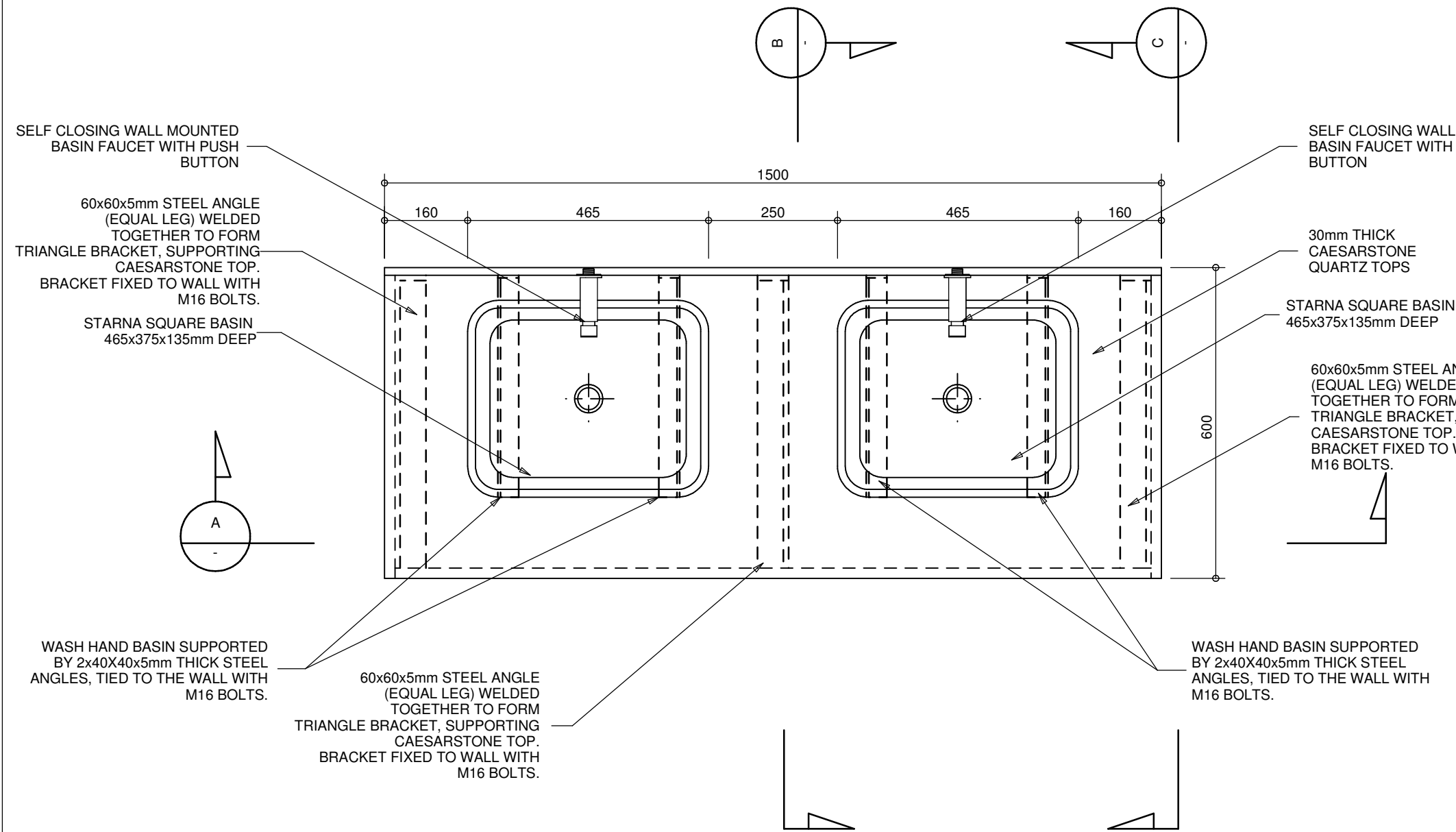
date **OCT'21** checked **S ISHMAIL**

drawing number \_\_\_\_\_ revision \_\_\_\_\_

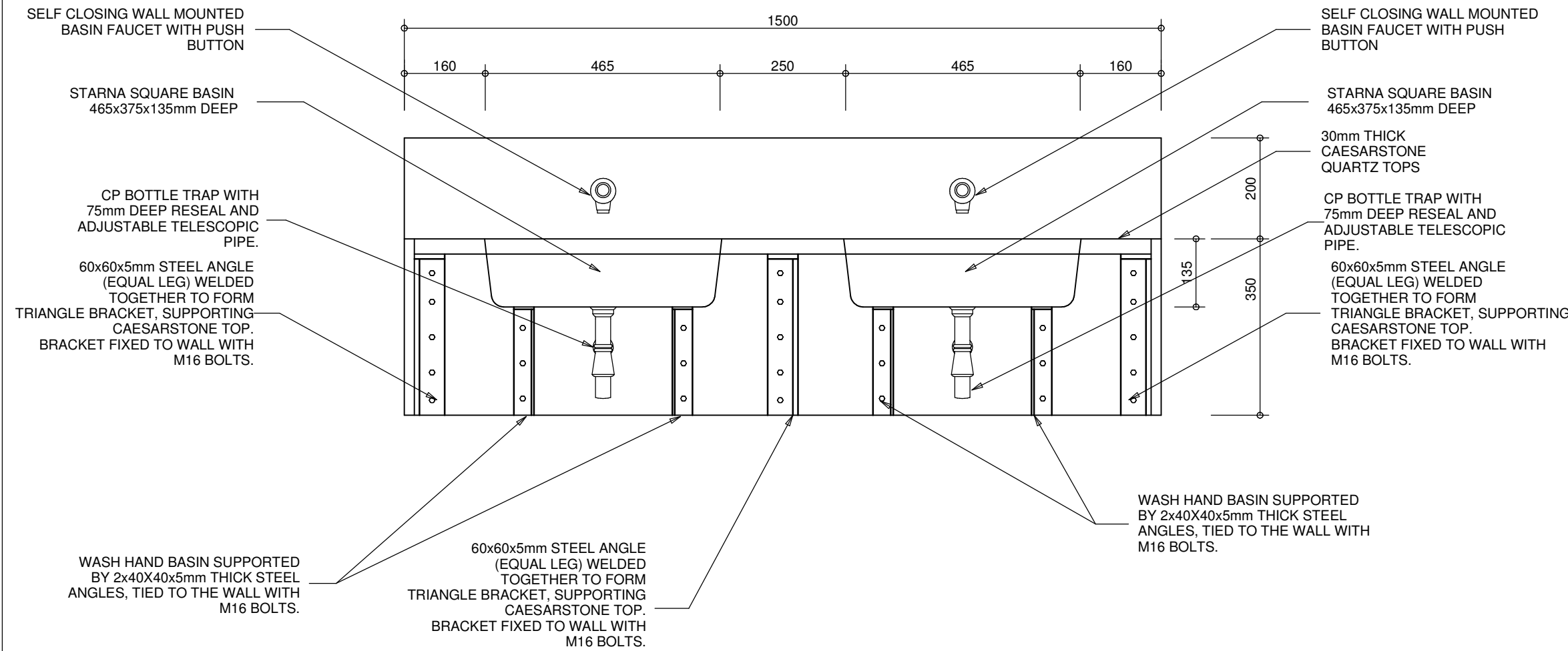
0534/02/02

D1

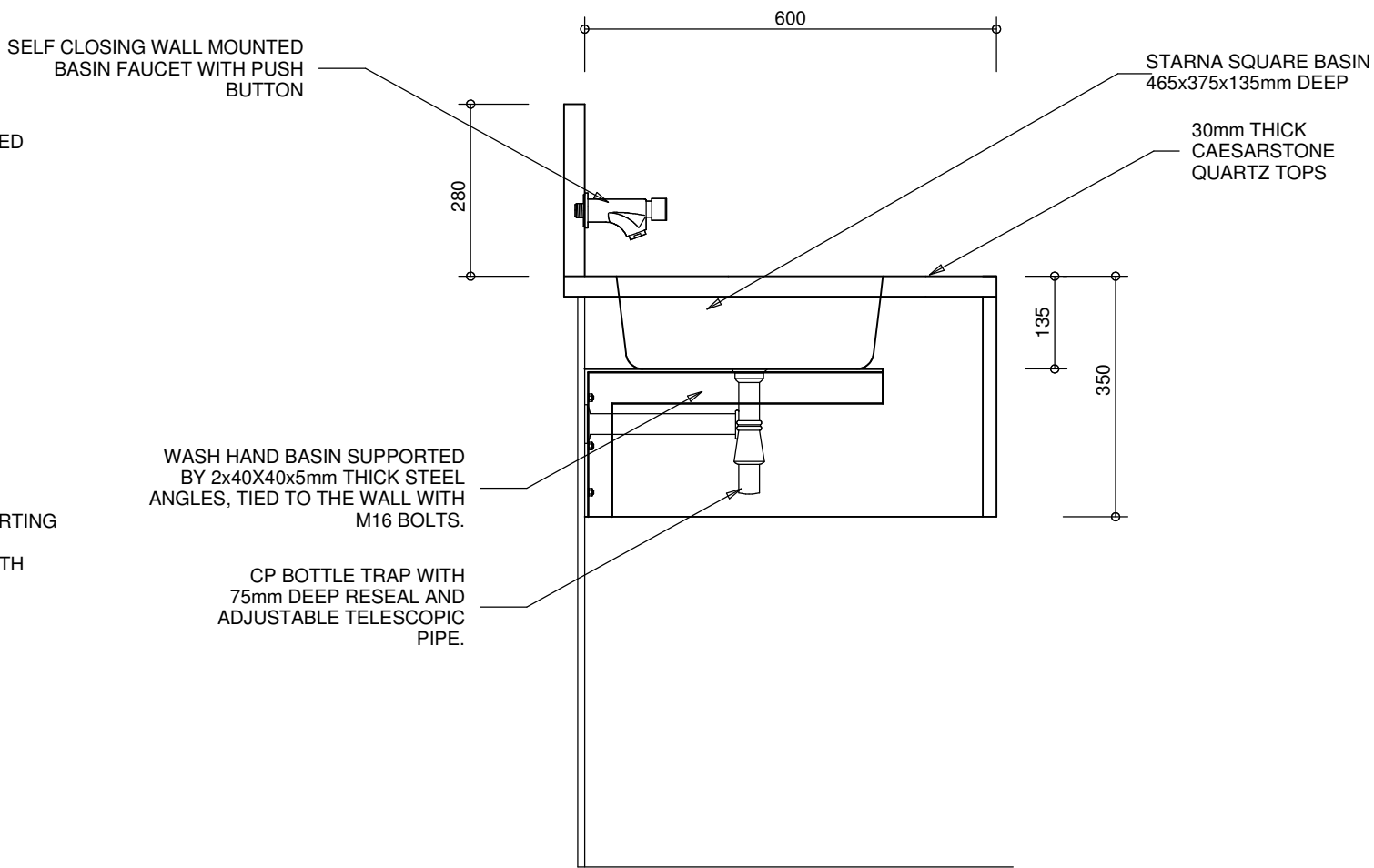




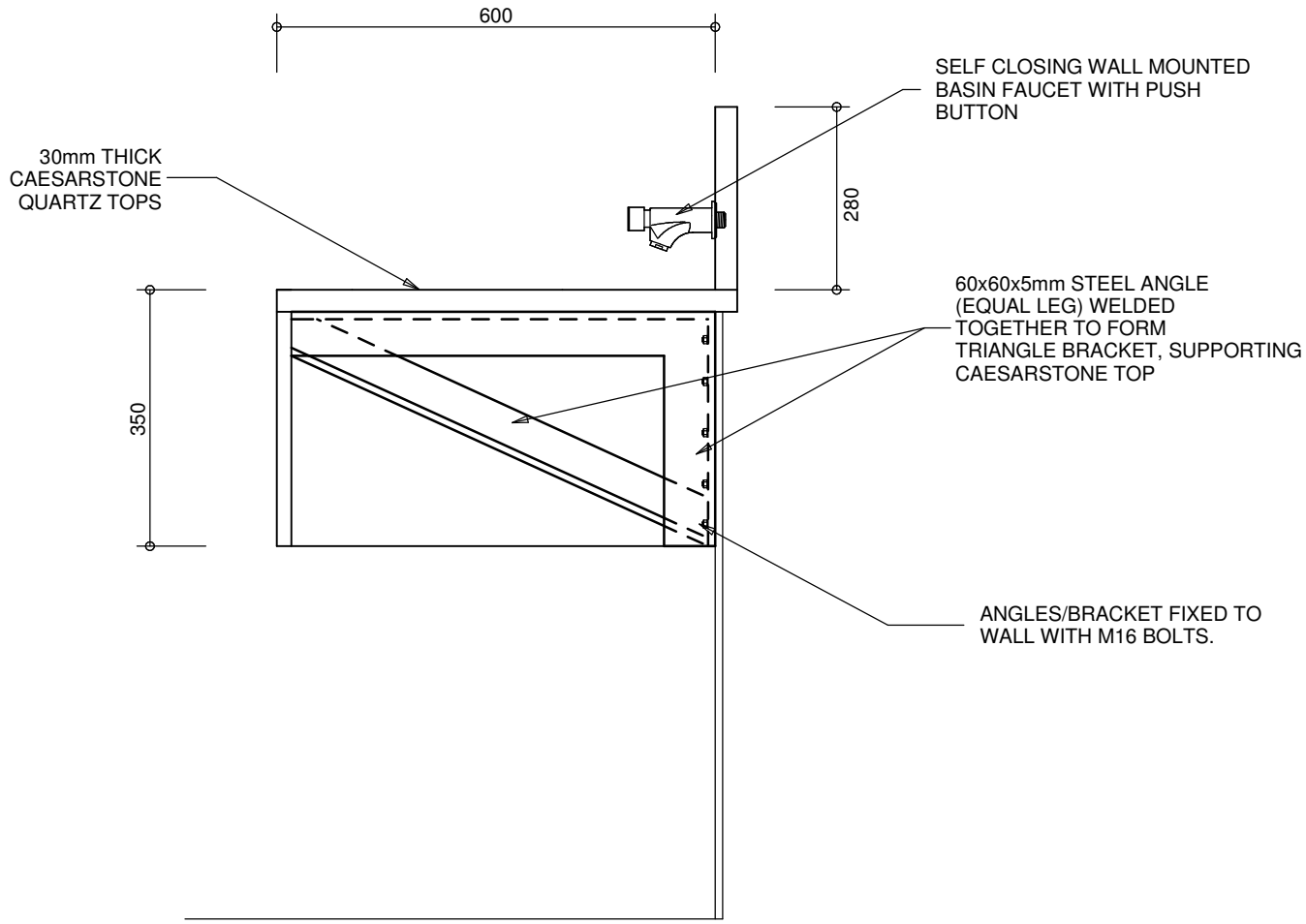
PLAN VIEW  
SCALE 1:10



SECTION A-A  
SCALE 1:10



SECTION B-B  
SCALE 1:10



SECTION C-C  
SCALE 1:10

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FOR INFORMATION

No.	DATE	AMENDMENT	D.P.W.
A	14.12.21	ISSUED FOR INFORMATION	SI

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Approved by: _____	
Date: _____	
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as-built drawings	
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name: N/A	
date: N/A	
professional registration no.: N/A	

cad file name	page type
0534-02-03	A2

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AND CONSTRUCTION  
MONITORING FOR THE  
RENOVATION WORK TO  
THE GOLDFIELDS EDUCATION  
CENTRE.

project number **0534**

drawing title

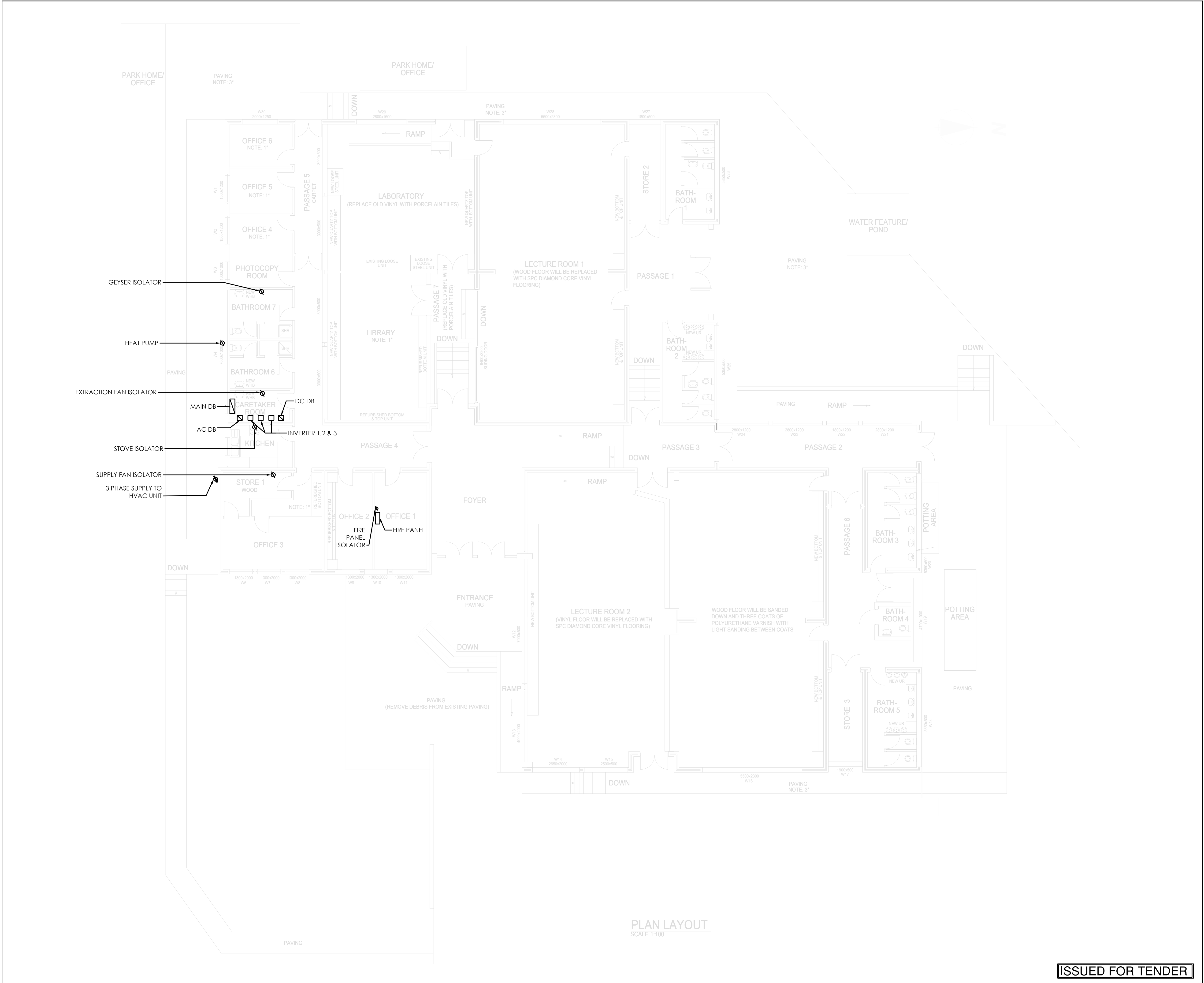
**SANBI KIRSTENBOSCH:**  
**WASH HAND BASIN DETAIL**

ref.no. --	designed R. SAMSODIEN
scale AS SHOWN	drawn K. JURIES
date DEC'21	checked S. ISHMAIL

drawing title

**0534-02-03**


revision **A**

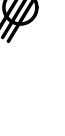


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No.	DATE	AMENDMENT	INIT.

LEGEND

 SINGLE PHASE 30A DOUBLE POLE ISOLATOR

 THREE PHASE ISOLATOR

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Date: \_\_\_\_\_

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Date: \_\_\_\_\_

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name: N/A

date: N/A

professional registration no.: N/A


cad file name  
0534-03-03\_0\_POWER LAYOUT

page type  
**A1**



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discipline  
**ELECTRICAL INSTALLATION**

service

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RENOVATION WORK TO THE  
GOLDFIELDS EDUCATION  
CENTRE**


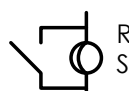












project number  
**N/A**

drawing title  
**GOLDFIELDS BUILDING  
POWER LAYOUT**

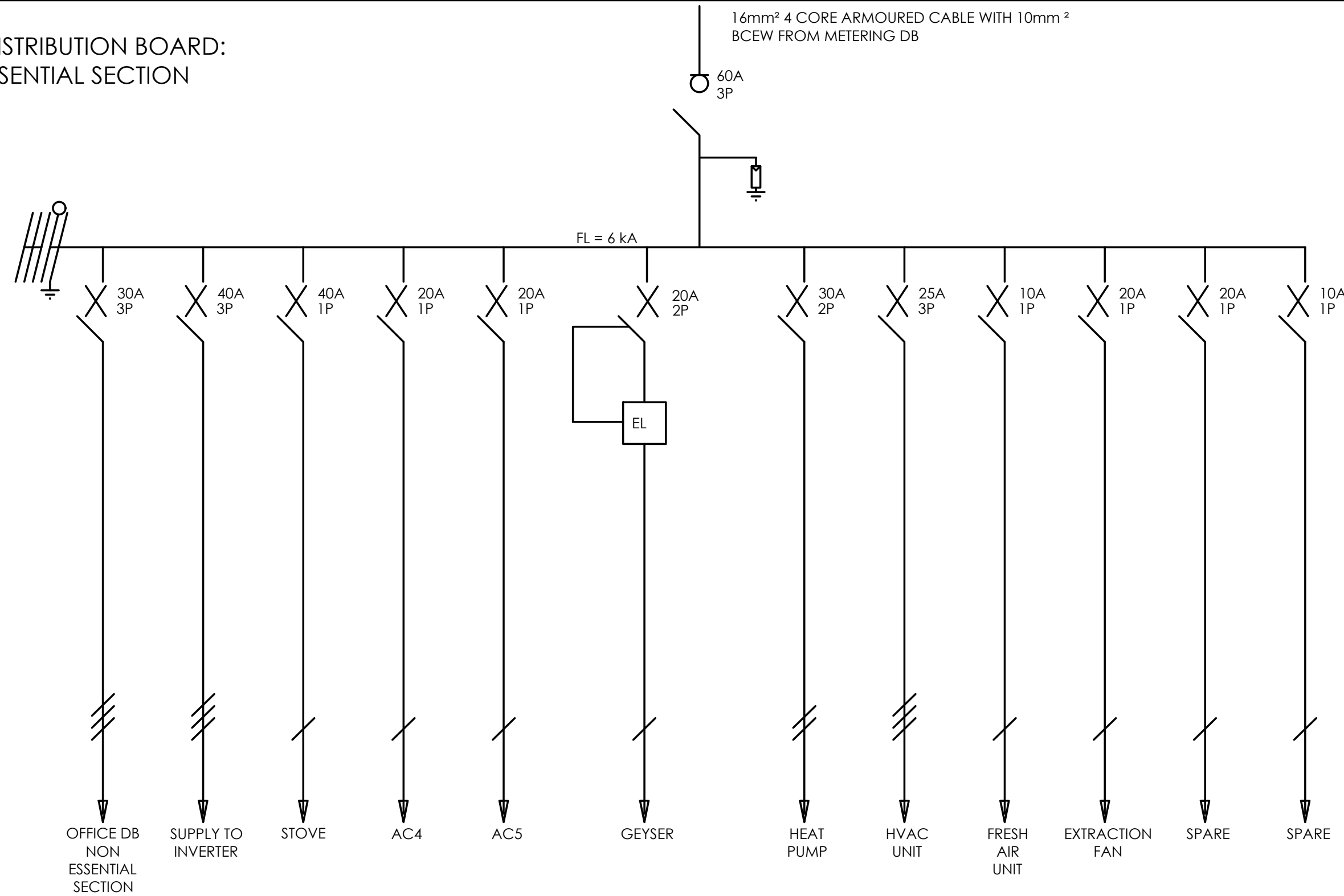
ref.no. <u>  </u>	designed <u>J MALAN</u>
scale <u>1:100</u>	drawn <u>L TALJAARD</u>
date <u>APR'25</u>	checked <u>J MALAN</u>
drawing number	revision

0534-03-03

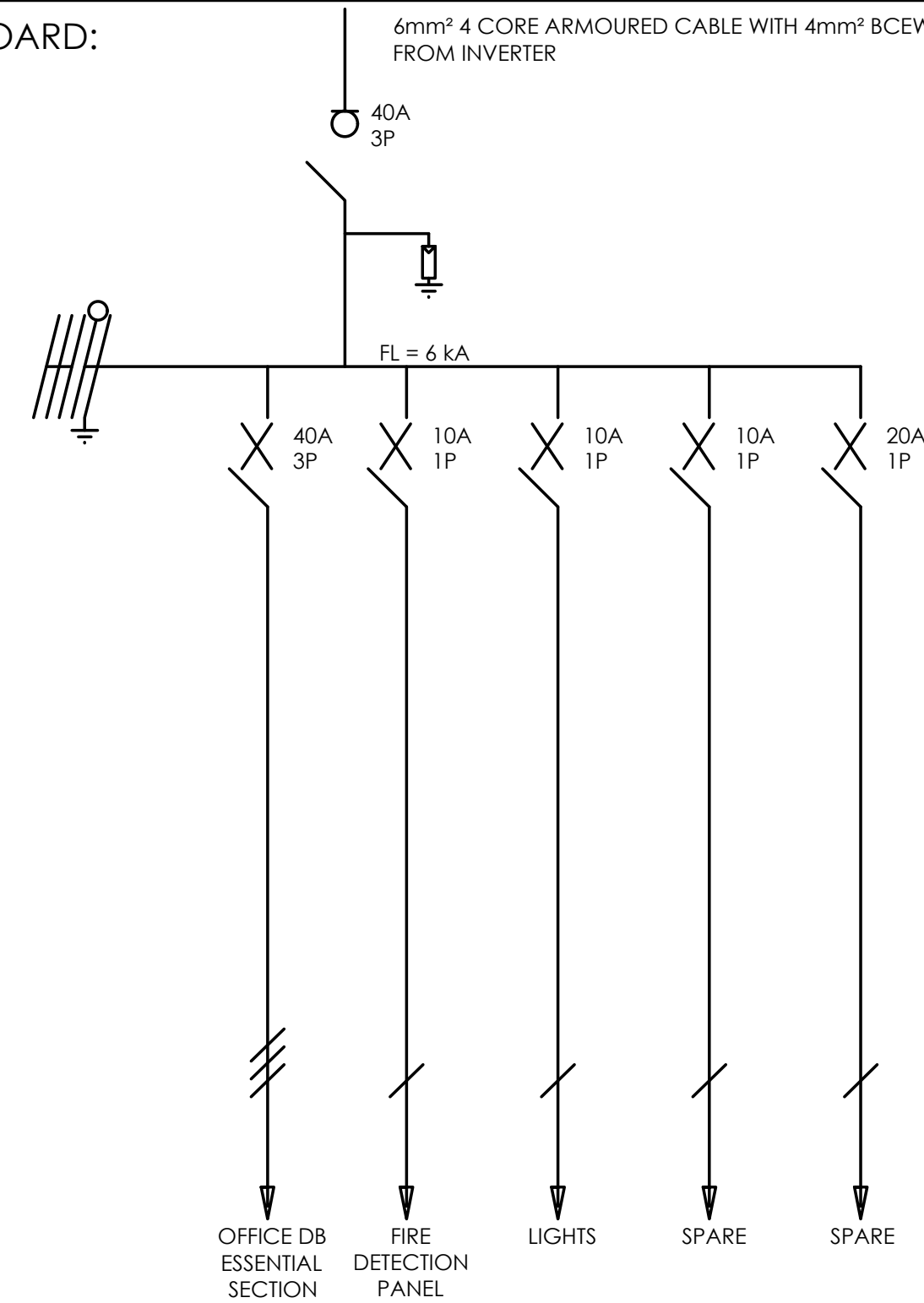
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GENERAL NOTES	LEGEND	
1. SURFACE MOUNTED MAIN DISTRIBUTION BOARD 2. COLOUR : FACE PLATE AND FRAME - ELEC ORANGE SABS B26. ESSENTIAL SECTION YELLOW 3. FACE PLATE TO HAVE HANDLES AND BE SECURED WITH PERANO SUARE CATHES. 4. SWITCHGEAR TO BE OF CBI OR 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")	 REMOTE DAYLIGHT SWITCH WITH BYPASS SELECTOR SWITCH ON DB
	 EARTH WIRE CONNECTED TO EARTH BAR - NOTE SPEC	 BUSBARS REQUIRED FOR A SINGLE PHASE SYSTEM, NEUTRAL AND EARTH
	 CLIPON RSF 1 TERMINAL WITH LABEL	 BUSBARS REQUIRED FOR A THREE PHASE SYSTEM, NEUTRAL AND EARTH
	 22 mm O LED PANEL INDICATOR LAMP	 ISOLATOR (NUMBER OF POLES INDICATED BY "X" AND RATING BY "Y")
	 SELECTOR SWITCH	 CIRCUIT BREAKER (NUMBER OF POLES INDICATED BY "X" AND RATING BY "Y")
	 FUSE HOLDER (LABELLED)	 LIGHTNING ARRESTOR - NOTE EARTH CONDUCTOR SPEC
	 SOFT STARTER	 EARTH LEAKAGE UNIT (NUMBER OF POLES INDICATED BY "X" AND RATING BY "Y")



MAIN DISTRIBUTION BOARD:  
NON-ESSENTIAL SECTION



MAIN DISTRIBUTION BOARD:  
ESSENTIAL SECTION

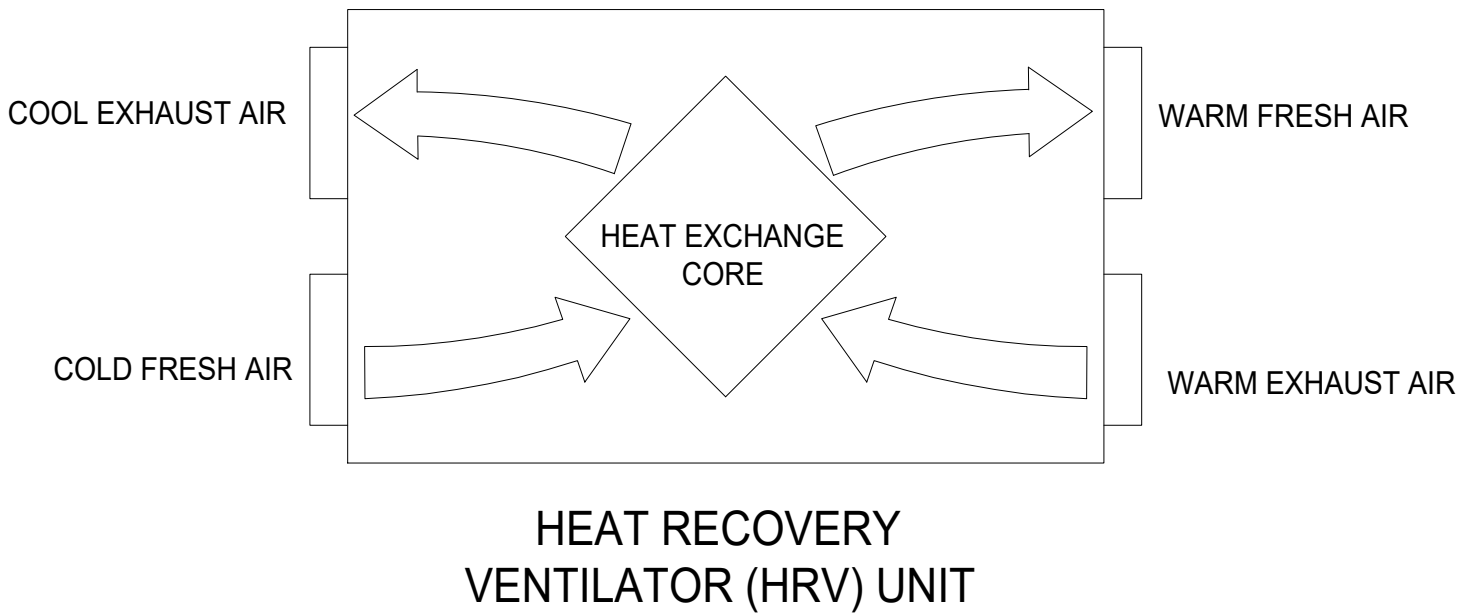
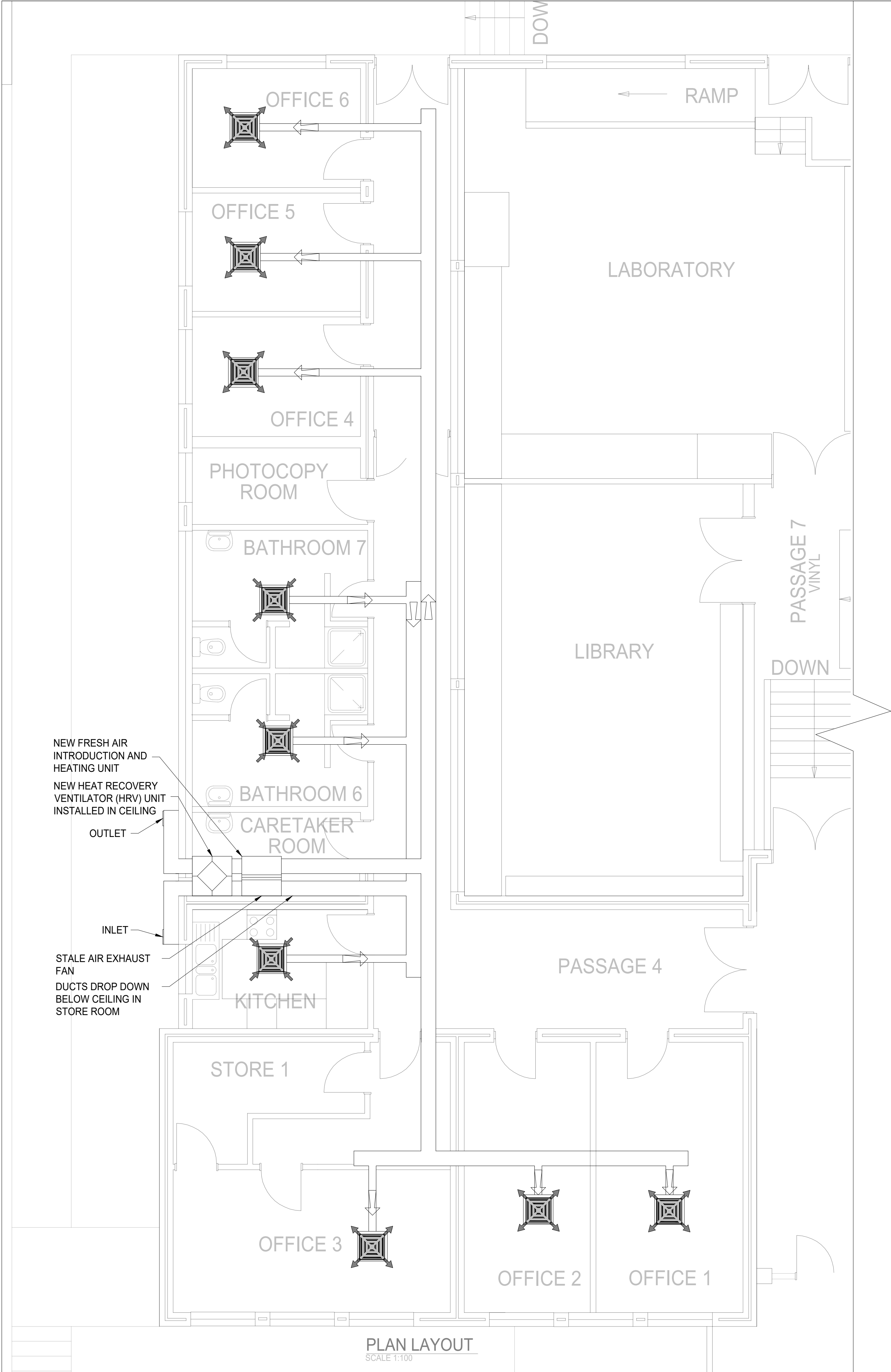


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Date: _____			
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as-built drawings			
certified as-built drawings as per Centralised Drawing Archive AS-BUILT DRAWING REQUIREMENTS			
name: <u>N/A</u>			
date: <u>N/A</u>			
professional registration no.: <u>N/A</u>			
cad file name 0534-03-04 AND 05_0_ DISTRIBUTION BOARDS		page type A1	
 South African National Biodiversity Institute			
consultant  P O BOX 323 GROENKLOOF 0027			
discipline ELECTRICAL INSTALLATIONS			
service SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE: PLANNING, DESIGNING, CONTRACT ADMINISTRATION MONITORING FOR THE RENOVATION WORK TO THE GOLD FIELDS EDUCATION CENTRE			
project number N/A			
drawing title MAIN DISTRIBUTION BOARD			
ref.no. _____		designed J MALAN	
scale NTS		drawn LTALJAARD	
date APR'25		checked J MALAN	
drawing number		revision 0	
0534/03/04			



revision

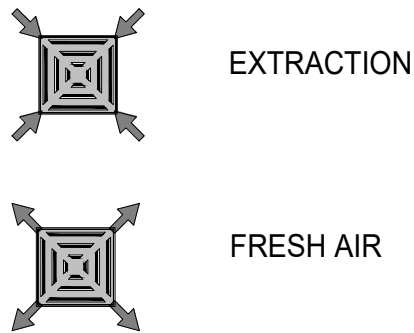


OPTION 1: FULL COMPLIANCE WITH SANS 10400 PART O IN FULL														
INTERNAL	DIM 1	DIM 2	DIM 3	HEIGHT	FLOOR AREA	AREA CLASSIFICATION SANS 10400 PART O: TABLE 2	AIR CHANGES REQUIRED	VOLUME AIR (m³/h)	VIRGIN SUPPLY	NON- VIRGIN SUPPLY	TOTAL SUPPLY (m³/h)	EXHAUST (m³/h)	RATE (m³/h)	TOTAL EXHAUST (m³/h)
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				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			
TOTAL											711,437694			916,909488

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
TOTAL											243

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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date: N/A  
professional registration no.: N/A

cad file name 0534-06-01_0_GOLDFIELDS HVAC	page type A1
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project number  
**N/A**

drawing title  
**GOLDFIELDS BUILDING HVAC**

ref.no. .  
scale NTS  
date APR '25  
drawing number

designed D UYS  
drawn D UYS  
checked JA WILSENACH  
revision

**0534-06-01**  
**D1**