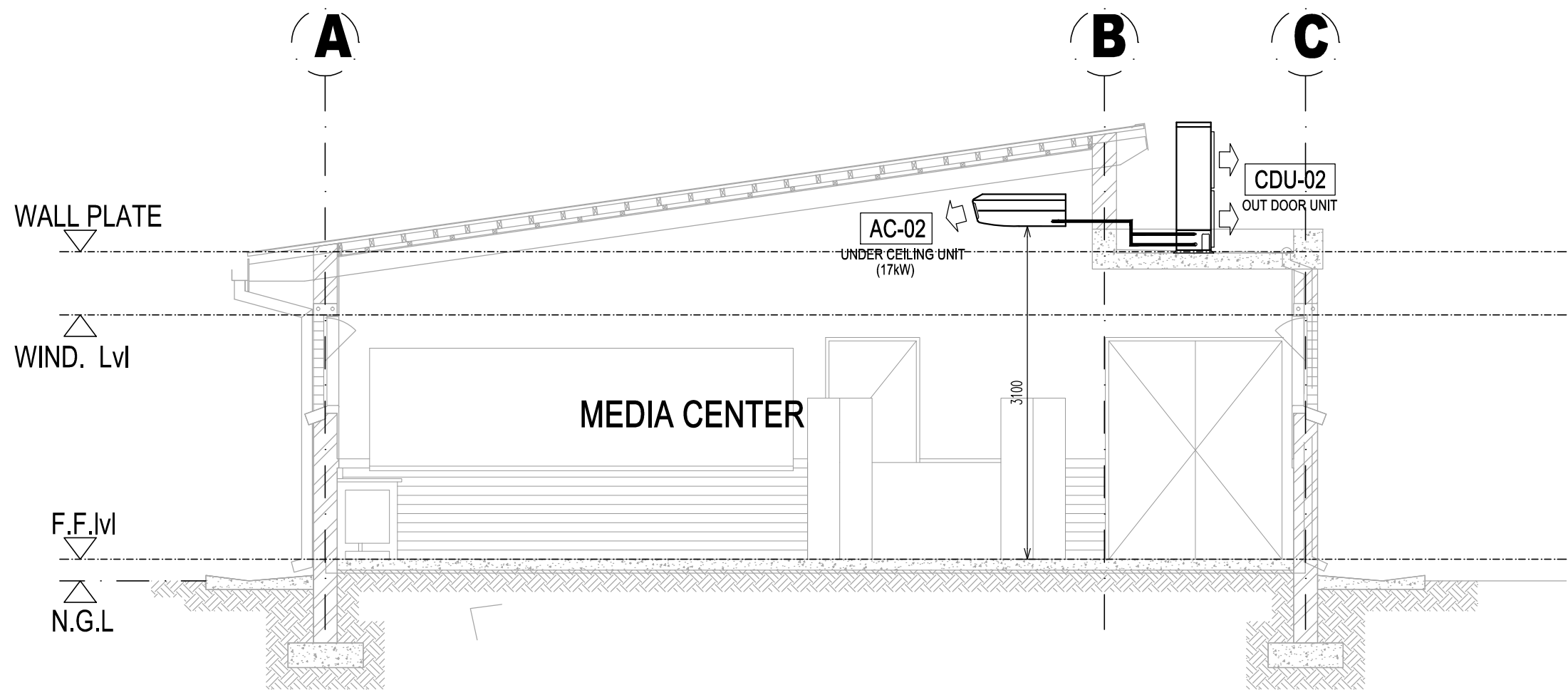
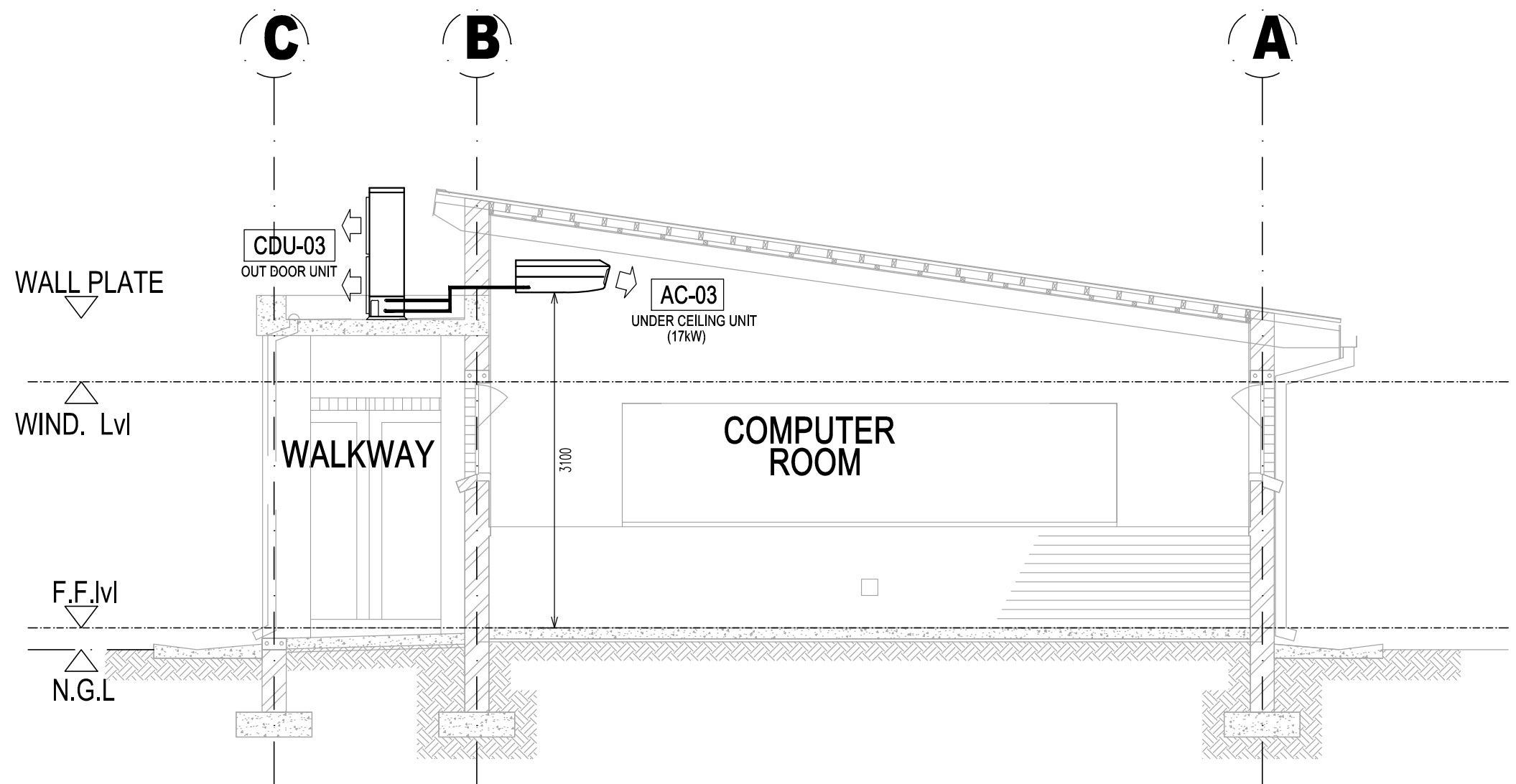


KHANDISA PS: BLOCK F - (MEDIA CENTER & COMPUTER ROOM)
SCALE 1: 100

EQUIPMENT SCHEDULE					
UNIT REFERENCE	UNIT TYPE	TYPE	MAKE	CAPACITY	NO-OFF
AC-01	UNDER CEILING UNIT	DX INVERTER	MIDEA OR SIMILAR EQUAL APPROVED	17kW	1
AC-02	UNDER CEILING UNIT	DX INVERTER	MIDEA OR SIMILAR EQUAL APPROVED	17kW	1
AC-03	UNDER CEILING UNIT	DX INVERTER	MIDEA OR SIMILAR EQUAL APPROVED	17kW	1
AC-04	UNDER CEILING UNIT	DX INVERTER	MIDEA OR SIMILAR EQUAL APPROVED	17kW	1



KHANDISA PS: SECTION A-A
SCALE 1: 100



KHANDISA PS: SECTION B-B
SCALE 1: 100

LOCAL AUTHORITY STAMPS

DUCT WIDTH (W) IN MM	R1	R2	R3
300 TO 600	350	555	750
601 TO 900	300	555	750
901 TO 1200	250	450	750
1201 TO 2400	300	550	950

ALL DUCTS TO BE SUPPORTED USING 30x50x1.6 CHANNEL. MAX. DUCT SUPPORT SPACING = 3000

NOTES:

DUCTWORK NOTES

- ALL DUCTWORK TO BE MANUFACTURED TO THE LATEST S.A.C.N.A STANDARDS, WITH FLANGED JOINTS ON DUCTS EXCEEDING 600 SEMI PERIMETER OR ONE SIDE EXCEEDS 750 AND 340 JOINTS ON SMALLER DUCTS.
- ALL A/C DUCTING TO BE EXTERNALLY INSULATED WITH 25mm FRK INSULATION. SPLITTINGS TO BE EXTERNALLY INSULATED WITH 25mm FRK INSULATION.
- ALL VENTILATION DUCTING TO BE UNINSULATED.
- ALL FLEXIBLE DUCTING TO BE FACTORY PRE-INSULATED.
- ALL FLEXIBLE DUCTING TO BE FIXED TO SPLITTINGS WITH JUBILEE CLAMPS AND STRAPPED WITH DUCT TAPE.
- ALL HANGERS AND BRACKETS TO BE GALVANISED.
- ALL DUCTWORK TO BE HUNG ON 30x50x1.6 G.S.M CHANNEL TRAPEZE HANGERS WITH 50 RODS.
- FLEXIBLE CONNECTIONS TO BE FITTED TO ALL DUCTING BETWEEN AIRHANDLING AND PACKAGE UNITS, FANS, ETC.

AIR CONDITIONING & VENTILATION

- AIR CONDITIONING DUCTWORK SHALL BE IN ACCORDANCE WITH SANS 1238-2005 EDITION 5.
- THE SELECTED AIR CONDITIONING SYSTEM SHALL HAVE C.O.P. (CO-EFFICIENT OF PERFORMANCE) EQUAL TO OR GREATER THAN THE REQUIRED VALUE STIPULATED IN THE SANS 10400A CALCULATION.
- VENTILATION INSTALLATIONS SHALL BE IN ACCORDANCE WITH SANS 10400 PART D.
- KITCHEN CANOPY INSTALLATION AND EXTRACT DUCTWORK SHALL BE IN ACCORDANCE WITH SANS 1850-2003 EDITION 2.
- AIR VELOCITY NOT TO EXCEED 0.5m/s AT A HEIGHT OF 1800mm ABOVE FINISHED FLOOR LEVEL.
- EXTRACTION VOLUME IN THE KITCHENS TO BE BASED ON THE KITCHEN CANOPY SIZE (NOT THE AMOUNT INDICATED IN THE VENTILATION SCHEDULE - THIS IS A MINIMUM REQUIREMENT FOR HUMAN USE).
- THE FRESH AIR MAKE UP SYSTEMS (FOR KITCHEN CANOPY EXTRACT) MUST BE AT LEAST 50% OF THE EXTRACTION AMOUNT, WHERE 70% OF THE FRESH AIR SUPPLY TO BE DISTRIBUTED IN A LINEAR FASHION AROUND THE KITCHEN CANOPY. THE REMAINING AMOUNT MAY BE DISTRIBUTED TO THE WASHING / SEATING AREAS, HOWEVER THE MINIMUM AMOUNT AS PER THE ATTACHED SCHEDULE MUST BE ADHERED TO.
- WHERE AN AIR-CONDITIONING SYSTEM IS INSTALLED, THE FRESH AIR SHOULD BE INTRODUCED TO SUCH SYSTEM BEFORE BEING DISTRIBUTED TO THE SPACE.

ENGINEER / CLIENT SIGNATURES

CLIENT SIGNATURE:	ENGINEERS SIGNATURE:
NAME:	NAME:
SIGNATURE:	SIGNATURE:

REVISION	DESCRIPTION	DATE
A	ISSUED FOR INFORMATION ONLY	11.11.19

CONSULTANT

REDLINE CONSULTING ENGINEERS

CONTACT DETAILS:
 Mobile: +27 82 414 39781 Luthien Road
 Tel: +27 31 573 2336 Durban North
 Fax: +27 31 573 2336
 Email: swen@redlineconsulting.co.za (swen@redline.co.za)

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DRAWING INFORMATION

PROJECT: ADDITIONS AND ALTERATIONS TO KHANDISA PRIMARY SCHOOL IN DLANGEZWA

DRAWING TITLE: MEDIA CENTER & COMPUTER ROOM HVAC LAYOUT

PROJECT NUMBER	DISCIPLINE	DRAWING NUMBER	REVISION NUMBER
JR2034	700	01	A

DESIGN BY: Mr Swen Amos P. Tech Eng 260670146 STATUS: COUNCIL APPROVAL