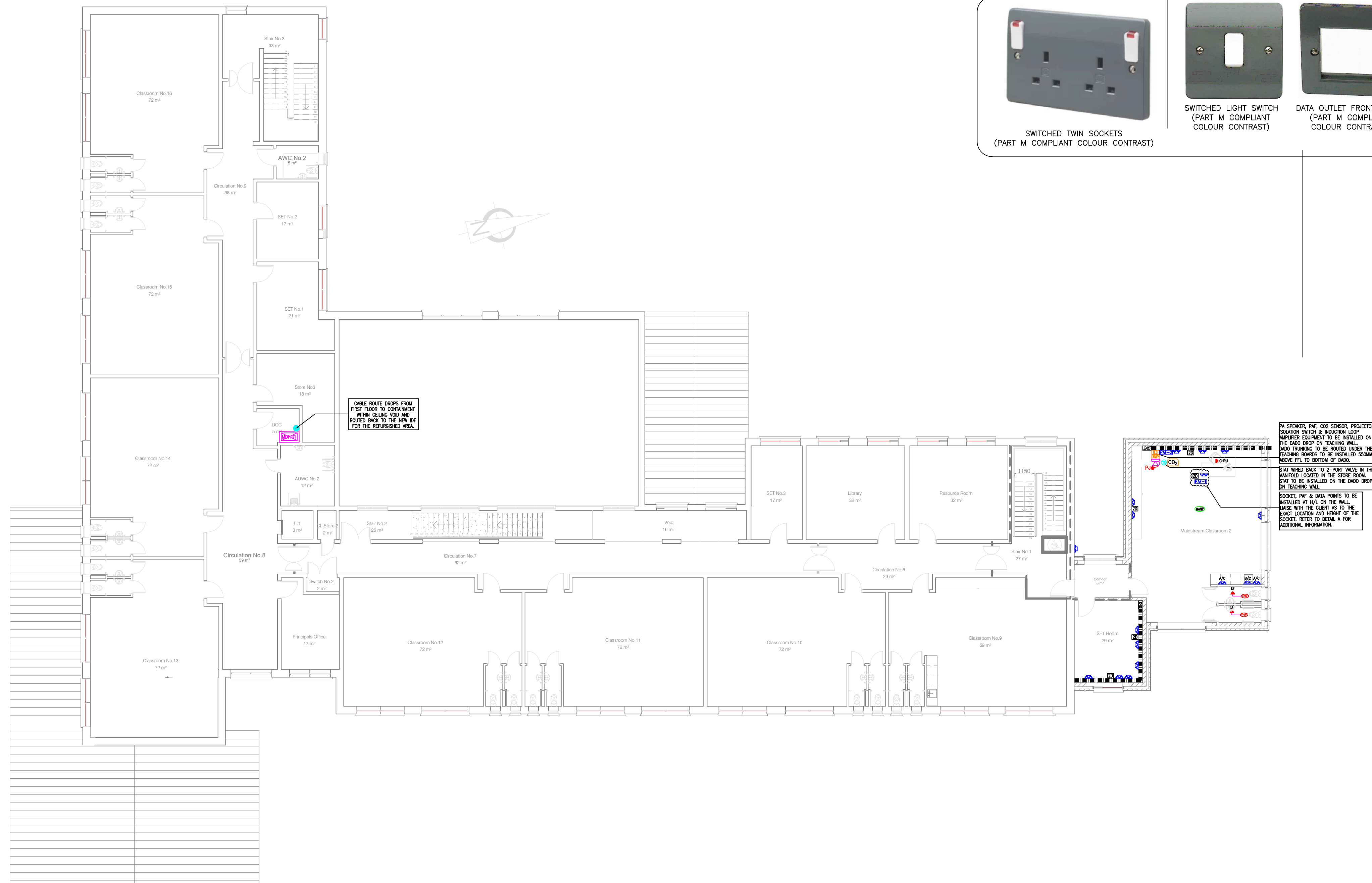
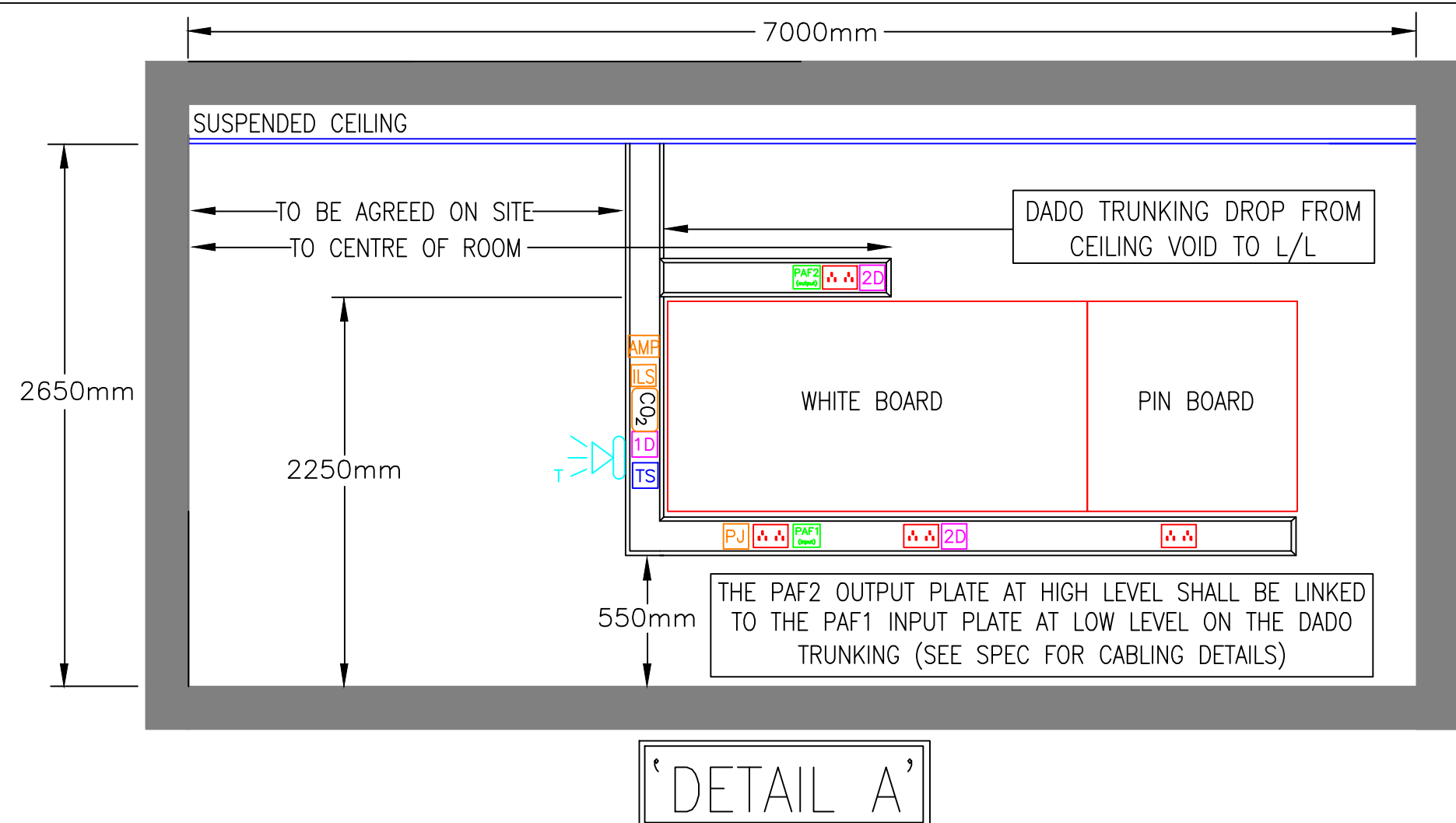
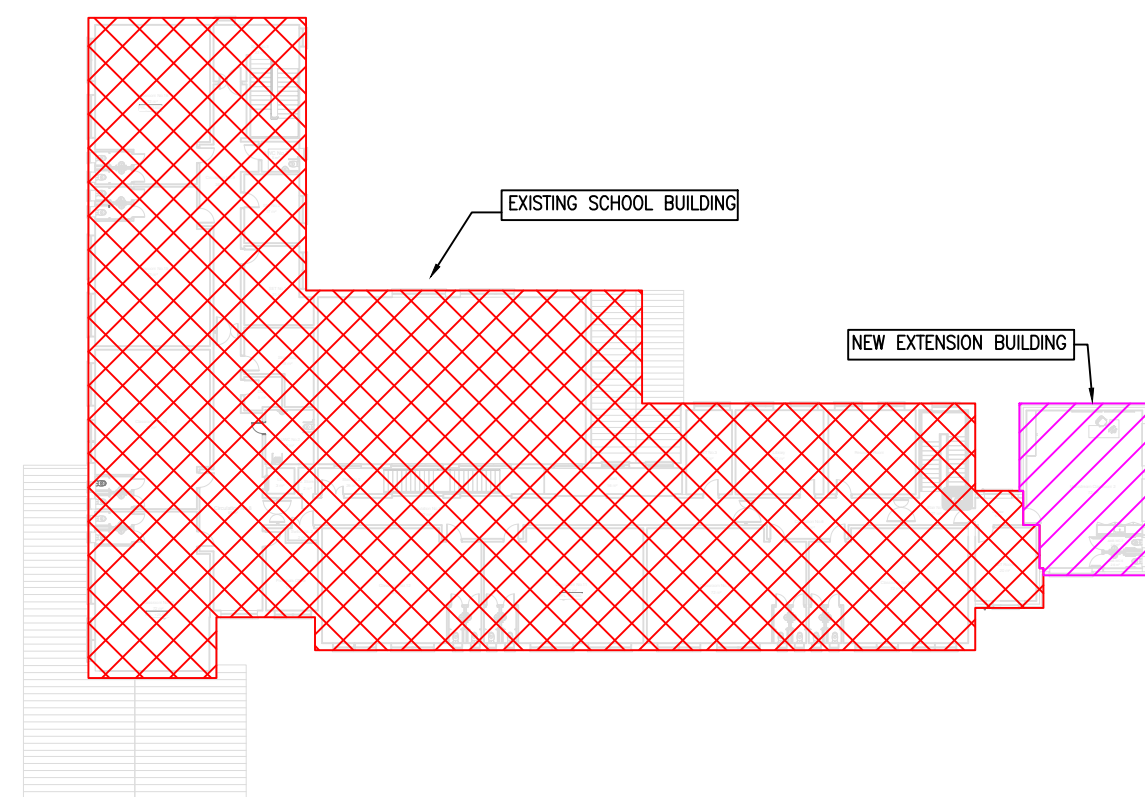




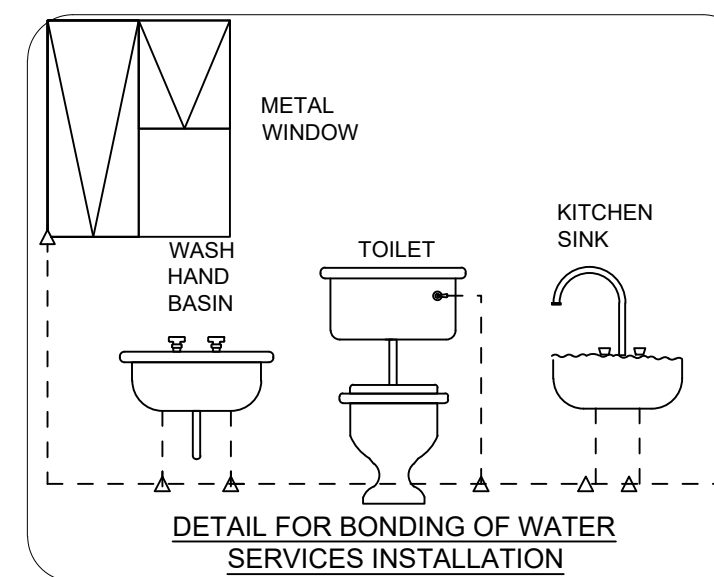
FIRST FLOOR POWER & GENERAL SERVICES LAYOUT



DETAIL FOR DADO TRUNKING DROP AT TEACHING WALL FOR THE GENERAL CLASSROOM (NOT THE SCALE)



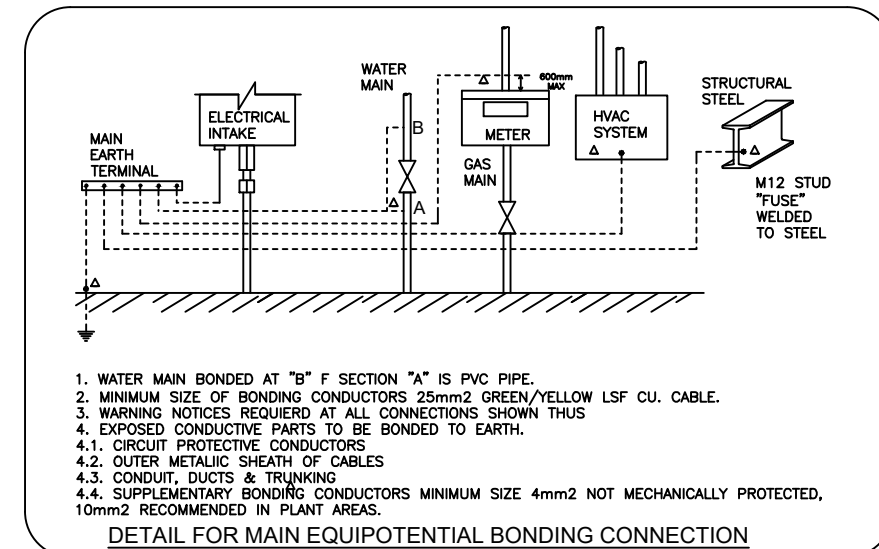
KEYPLAN 1:500



ALL ELECTRICAL SERVICES THROUGHOUT THE NEW EXTENSION ARE TO BE CHASED INTO WALLS.

POWER & GENERAL SERVICES SYMBOLS

	TWIN 13A SWITCHED SOCKET OUTLET		HAND-DRYER C/W SWITCHED SPUR
	IP65 RATED TWIN 13A SWITCHED SOCKET OUTLET		WALL MOUNTED ROOM STAT
	SINGLE 13A SWITCHED SPUR OUTLET FOR CCTV SYSTEM		WIRELESS ACCESS NETWORK POINT (WIFI POINT). POINT SHALL BE WIRED IN CAT 6A CABLE
	SINGLE 13A SWITCHED SPUR OUTLET FOR DOOR ACCESS SYSTEM		2-PORT MOTORISED VALVE
	SINGLE 13A SWITCHED SPUR OUTLET FOR EXTRACT FANS		12-CANC WALL MOUNTED CONTROL PANEL FOR SOCKETS/SPURS IN SENSORY ROOM
	CAT 6A OUTLET FOR TELEPHONE (* DENOTES NO. OF OUTLETS)		PUBLIC ADDRESS SYSTEM WITH TALK BACK FACILITY (INTERNAL)
	CAT 6A OUTLET FOR DATA (* DENOTES NO. OF OUTLETS)		PUBLIC ADDRESS SYSTEM WITHOUT TALK BACK FACILITY (INTERNAL)
	CAT 6A OUTLET FOR DOOR ACCESS (* DENOTES NO. OF OUTLETS)		PUBLIC ADDRESS SYSTEM (EXTERNAL)
	CAT 6A OUTLET FOR CCTV CAMERAS (* DENOTES NO. OF OUTLETS)		SINGLE 13A SWITCHED SPUR OUTLET FOR ELECTRIC ACTUATOR FOR WINDOWS
	NEW SUB DISTRIBUTION BOARD FOR THE EXTENSION OF THE BUILDING		SINGLE 13A SWITCHED SPUR OUTLET FOR ELECTRIC BLINDS
	EXISTING MAIN DISTRIBUTION BOARD FOR THE EXISTING BUILDING		INDUCTION LOOP SYSTEM
	EXISTING MAIN COMMUNICATIONS CABINET FOR THE BUILDING		AMPLIFIER FOR INDUCTION LOOP SYSTEM
	NEW INTERMEDIATE COMMUNICATIONS CABINET FOR THE EXTENSION OF THE BUILDING		INDUCTION LOOP TAPE TO BE INSTALLED AROUND THE PERIMETER OF THE ROOM
	CONTROL WIRING		SINGLE 13A SWITCHED SPUR OUTLET FOR HEAT RECOVERY UNIT
	ABOVE COUNTER		BELOW COUNTER TWIN SOCKET WITH OVER COUNTER DOUBLE POLE ISOLATION SWITCH C/W NEON INDICATOR FOR ISOLATION
	REMOTE PIR CONTROL FOR THE EXTRACT FAN		PROJECTOR AUDIO FACEPLATE 1 (HIGH LEVEL - PAF1)
	SINGLE 13A UNSWITCHED SPUR OUTLET FOR THE POWER SUPPLY TO THE FIRE ALARM REPEATER PANEL		PROJECTOR AUDIO FACEPLATE 2 (TEACHERS DESK - PAF2)
	SINGLE 40A UNSWITCHED SPUR OUTLET FOR THE ELECTRIC SHOWER. SPUR OUTLET INSTALLED AT APPROXIMATELY 2600mm A.F.F.L.		SINGLE 13A SWITCHED SPUR OUTLET FOR THE HOT WATER BOILER
	CO2 MONITOR WITH LED DISPLAY MOUNTED AT 1400mm A.F.F.L.		SINGLE 25A SWITCHED SPUR OUTLET FOR CLASSROOM HEAT RECOVERY UNIT
	DOUBLE POLE ISOLATING SWITCH FOR ISOLATING THE POWER TO THE DOUBLE SOCKET AT HIGH LEVEL ON THE DADO TRUNKING		PAF1 INPUT FACEPLATE CONTAINS THE FOLLOWING: 1NO VOA SOCKET 1NO HDMI SOCKET 1NO USB SOCKET 1NO MINI STEREO JACK PLUG AUDIO INPUT SOCKET
	SINGLE 32A UNSWITCHED SPUR OUTLET FOR THE ELECTRIC FIRE SHUTTER INSTALLATION		PAF2 OUTPUT FACEPLATE CONTAINS THE FOLLOWING: 1NO VOA SOCKET 1NO HDMI SOCKET 1NO USB SOCKET 1NO MINI STEREO JACK PLUG AUDIO INPUT SOCKET
	SINGLE-PHASE ISOLATOR (* DENOTES RATING OF ISOLATOR)		SINGLE 13A UNSWITCHED SPUR OUTLET INSTALLED AT HIGH LEVEL IN THE CEILING VOID FOR POWER SUPPLY TO THE EMERGENCY CALL SYSTEM FOR THE DISABLED TOILET. MOUNTING HEIGHT TO BE CONFIRMED ON SITE.



GENERAL NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL MECHANICAL, ELECTRICAL, ARCHITECTURAL AND STRUCTURAL DRAWINGS & SPECIFICATIONS.
- THE CONTRACTOR SHALL CO-ORDINATE FULLY WITH ALL OTHER TRADES BEFORE COMMENCING WORK. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL THE NECESSARY INFORMATION TO ALLOW THE MAIN CONTRACTOR CO-ORDINATE ALL SERVICES.
- THE MECHANICAL CONTRACTOR SHALL ALLOW FOR CO-ORDINATING THE MECHANICAL INSTALLATION WITH THE ELECTRICAL CONTRACTOR ON SITE. EXTRA COSTS INCURRED DUE TO THE CO-ORDINATION EXERCISE NOT BEING COMPLETED WILL NOT BE ACCEPTED BY THE ENGINEER.
- DO NOT SCALE THIS DRAWING. ALL DIMENSIONS TO BE TAKEN ON SITE.
- THE CONTRACTOR SHALL ALLOW FOR THE SUPPLY AND INSTALLATION OF ALL ELECTRICAL SERVICES INDICATED ON THIS DRAWING.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO IDENTIFY SUITABLE FINAL ROUTES FOR CABLE CONTAINMENT, ELECTRICAL SERVICES, ETC. AS INDICATED ON THE DRAWINGS.
- NEW MAINS RUN OF ELECTRICAL CONTAINMENT SHALL BE INSTALLED IN THE AREAS AS INDICATED. THIS IS INDICATIVE ONLY AND IF THE CONTRACTOR FINDS A MORE CONVENIENT ROUTE FOR THE ELECTRICAL SERVICES ON SITE THEN THAT WILL BE ACCEPTABLE.
- FINAL LOCATION OF ALL ITEMS OF SOCKETS/LIGHTING, ETC. SHALL BE AGREED ON SITE WITH THE EMPLOYERS REPRESENTATIVE AND THE CLIENT.
- ALL SERVICES THROUGH FIRE BARRIERS SHALL BE SLEEVED EACH SIDE OF THE BARRIER. THE MAIN CONTRACTOR SHALL ALLOW FOR FIRE PROOFING THE OPS AFTER SERVICES IS INSTALLED.
- THE CONTRACTOR SHALL ALLOW FOR ALL NECESSARY LABOUR, WIRING AND ATTENDANCES IN COMPLETING ALL THE ELECTRICAL WORKS AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS.
- ALL AREAS: ALL ELECTRICAL SERVICES BELOW CEILING LEVEL FOR THE ELECTRICAL INSTALLATION IN THE ALL AREAS SHALL BE RECESSED/CONCEALED AND FINISHED FLUSH WITH THE FINISHED WALL, UNLESS STATED OTHERWISE. LANCE WITH THE MAIN CONTRACTOR FOR ALL NECESSARY CHASES OR BONDING OUT TO CONICAL SERVICES IN THE UNIT.

POWER & GENERAL SERVICES NOTES:

- ALLOW FOR POWER SUPPLY & ELECTRICAL CONNECTION TO ALL MECHANICAL ITEMS IDENTIFIED
- WHERE SIGNAL/CONTROL CABLES ARE ROUTED TO THEIR RESPECTIVE CONTROL PANEL PROVIDE GALVANISED STEEL TRUNKING TO ENCLOSE MULTIPLE RUNS OF CABLE
- MECHANICAL AND ELECTRICAL CONTRACTORS SHALL LANCE AND ARRANGE FOR INTERFACE BETWEEN MECHANICAL INSTALLATIONS AND ELECTRICAL INSTALLATIONS.
- SEE OTHER ELECTRICAL DRAWINGS FOR LOCATIONS OF OTHER ELECTRICAL EQUIPMENT THAT WILL REQUIRE POWER ATTENDANCES.
- ANY SINGLE PHASE CIRCUIT FED DIRECTLY FROM A THREE PHASE DISTRIBUTION BOARD SHALL HAVE THE APPROPRIATE PHASE COLOUR EXTENDED INTO THE SINGLE PHASE CIRCUITS FED FROM THAT PHASE.
- REFER TO TABLE 51C COLOUR CODE FOR CABLE CORES AND INSULATED CONDUCTORS FOR ELECTRICAL INSTALLATIONS
- SURGE PROTECTION TO BE INSTALLED ON ALL ELECTRICAL BOARDS AS INDICATED. SEE SPECIFICATION FOR FURTHER DETAILS.
- MAIN INCOMING ACB SHALL HAVE A RATED PROSPECTIVE SHORT CIRCUIT CURRENT OF NOT LESS THAN 40 kA AT A POWER FACTOR OF 0.2, AND SHALL BE TESTED TO P2 CATEGORY EC157-1.
- BUSBARS SHALL BE HDG COPPER OF UNIFORM CROSS SECTION AND SHALL COMPLY FULLY WITH BS 135. THE BUSBAR SYSTEM SHALL BE TYPE TESTED IN ACCORDANCE WITH IEC 438 AND BE CAPABLE OF CARRYING THE CONTINUOUS LOAD CURRENT AS SPECIFIED.
- BUSBAR CONNECTIONS UP TO 63 AMP MAY BE EFFECTED BY MEANS OF CABLE, BRACED AND SUPPORTED AS NECESSARY, WHEREAS CONNECTIONS ABOVE 63 AMP SHALL BE MADE BY MEANS OF HDG RECTANGULAR SECTION COPPER BUSBAR, INSULATED AND SUPPORTED AS NECESSARY.
- INSTALLATION RADI ON MEDIUM VOLTAGE CABLES SHALL BE AS LARGE AS POSSIBLE AND SHALL IN NO INSTANCE BE LESS THAN 18 TIMES THE OVERALL CABLE DIAMETER.
- A NEW SUB ELECTRICAL BOARD SHALL BE INSTALLED THAT SHALL CATER FOR ALL THE NEW EXTENSION OF THE BUILDING.
- ALL IT POINTS & TELEPHONE POINTS SHALL BE CAT-6A FOR NEW AREAS IN THE BUILDING SHALL BE CONNECTED BACK TO A NEW COMMUNICATIONS CABINET IN THE STORE ROOM OF THE NEW EXTENSION. ALLOW FOR ALL CABLING AND ATTENDANCES IN CONNECTING THE IT POINTS TO THIS CABINET AND FOR THE SUPPLY AND INSTALLATION OF THIS CABINET.
- A NEW PA (PUBLIC ADDRESS) JUNCTION BOX SHALL BE INSTALLED TO CATER FOR THE NEW PA SPEAKERS FOR THE EXTENSION AS INDICATED ON THE DRAWINGS. THE MAIN CONSOLE SHALL BE INSTALLED IN THE OFFICE SHALL BE RETAINED AND EXTENDED. ALLOW FOR WIRING OF ALL NEW PA SPEAKERS AS INDICATED BACK TO THE LOCATION OF THE NEW PA JUNCTION BOX AND LINKING TO THE EXISTING PA CONSOLE. SEE SPECIFICATION FOR FURTHER DETAILS.
- A NEW FIBRE OPTIC LINK CABLE SHALL BE INSTALLED FROM THE EXISTING MAIN COMMS CABINET TO LINK THE NEW INTERMEDIATE COMMS CABINET FOR THE NEW EXTENSION. REFER TO DRAWING 62E002 AND SPECIFICATION FOR FURTHER DETAILS.

T1	22.07.2028	K. DAVITT	G. BENNDORF
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