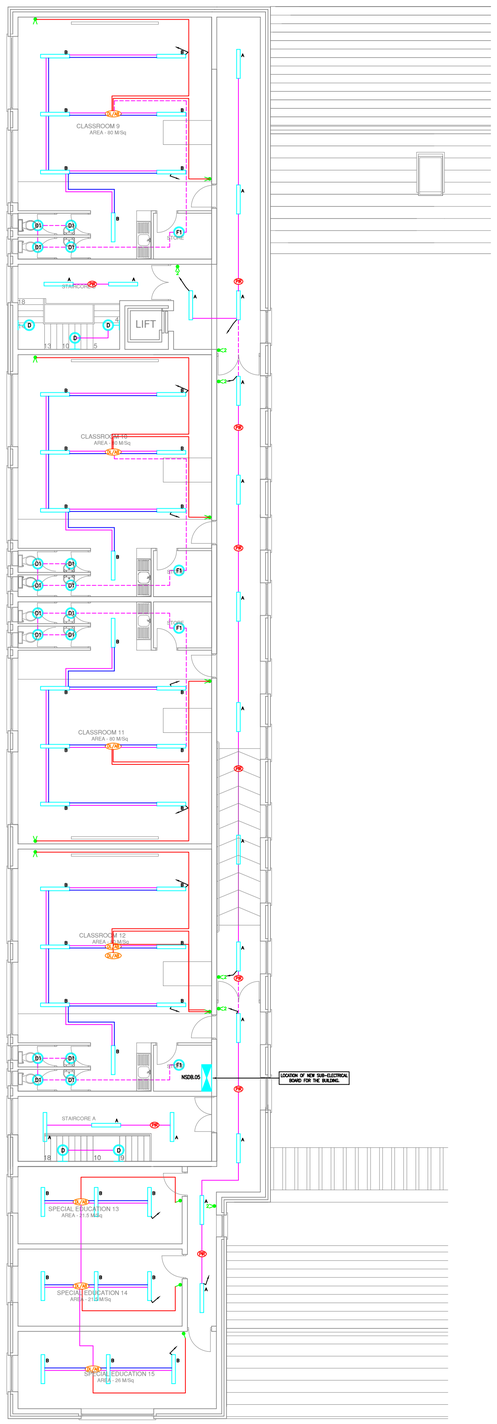
A1



NEW LIGHTING SERVICES INSTALLATION LAYOUT FOR 'AREA C' ON THE FIRST FLOOR OF THE BUILDING (SCALE 1:125)

TYPE 'A'

23watt LED LIGHT FITTING AS THORN 'COLLEGE 2' LED 3000–840 HF L1500, OR EQUIVALENT



OUTPUT:	23watt
BODY:	WHITE PAINTED STEEL
DIMENSIONS:	1542mm x 195mm x 82mm
LUMINOUS FLUX:	3320lm
LIFETIME:	100,000hrs L80
LAMP EFFICACY:	144m/W
DIMMING:	YES
COLOUR:	WHITE
COLOUR TEMP:	4000k
WEIGHT:	4.72kg
WARRANTY:	5 years
MOUNTING:	MOUNTED ON THE CEILING

TYPE 'B'

31watt LED LIGHT FITTING AS THORN 'COLLEGE 2' LED 4600–840 HF L1500, OR EQUIVALENT



OUTPUT:	31watt
BODY:	WHITE PAINTED STEEL
DIMENSIONS:	1542mm x 195mm x 82mm
LUMINOUS FLUX:	4360lm
LIFETIME:	100,000hrs L80
LAMP EFFICACY:	143m/W
DIMMING:	YES
COLOUR:	WHITE
COLOUR TEMP:	4000k
WEIGHT:	4.72kg
WARRANTY:	5 years
MOUNTING:	MOUNTED ON THE CEILING

TYPE 'C'

47watt LED LIGHT FITTING AS THORN 'COLLEGE 2' LED 6500–840 HF L1500, OR EQUIVALENT



OUTPUT:	47watt
BODY:	WHITE PAINTED STEEL
DIMENSIONS:	1542mm x 195mm x 82mm
LUMINOUS FLUX:	6320lm
LIFETIME:	100,000hrs L80
LAMP EFFICACY:	133m/W
DIMMING:	YES
COLOUR:	WHITE
COLOUR TEMP:	4000k
WEIGHT:	4.72kg
WARRANTY:	5 years
MOUNTING:	MOUNTED ON THE CEILING

TYPE 'D'

12watt LED LIGHT FITTING AS THORN 'KATONA' KAT RD 1400–840 HF, OR EQUIVALENT



OUTPUT:	12watt
BODY:.	WHITE POLYCARBONATE
DIMENSIONS:	307mm DIAMETER BY 58mm DEEP
LUMINOUS FLUX:	1400lm
LIFETIME:	50,000hrs L80
LAMP EFFICACY:	120m/W
DIMMING:	NO
COLOUR:	WHITE
COLOUR TEMP:	4000k
WEIGHT:	1kg
WARRANTY:	5 years
MOUNTING:	MOUNTED ON THE CEILING OR WALL

TYPE 'D1'

12watt LED LIGHT FITTING AS THORN 'KATONA' KAT RD 1400–840 MWS, OR EQUIVALENT



THIS FITTING SHALL BE THE SAME FITTING AND OUTPUT OF FITTING AS THE 'TYPE D' FITTING BUT THIS FITTING SHALL HAVE AN INTEGRATED PRESENCE SENSOR FOR PRESENCE DETECTION AND LIGHTING CONTROL.

ENSURE THAT THE LIGHT FITTING IS SUPPLIED WITH AN INTEGRATED PIR SENSOR.

TYPE 'F'

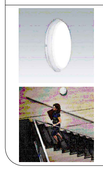
16watt LED LIGHT FITTING AS THORN 'KATONA' KAT RD 2000–840 HF, OR EQUIVALENT



OUTPUT:	16watt
BODY:	WHITE POLYCARBONATE
DIMENSIONS:	307mm DIAMETER BY 58mm DEEP
LUMINOUS FLUX:	1950lm
LIFETIME:	50,000hrs L80
LAMP EFFICACY:	120m/W
DIMMING:	NO
COLOUR:	WHITE
COLOUR TEMP:	4000k
WEIGHT:	1kg
WARRANTY:	5 years
MOUNTING:	MOUNTED ON THE CEILING OR WALL

TYPE 'F1'

16watt LED LIGHT FITTING AS THORN 'KATONA' KAT RD 2000–840 MWS, OR EQUIVALENT



THIS FITTING SHALL BE THE SAME FITTING AND OUTPUT OF FITTING AS THE 'TYPE F' FITTING BUT THIS FITTING SHALL HAVE AN INTEGRATED PRESENCE SENSOR FOR PRESENCE DETECTION AND LIGHTING CONTROL.

ENSURE THAT THE LIGHT FITTING IS SUPPLIED WITH AN INTEGRATED PIR SENSOR.

TYPE 'G'

30watt LED LIGHT FITTING AS THORN 'AQUAFORCE PRO' LED 4300–840 PC WB HF, OR EQUIVALENT



OUTPUT:	30watt
BODY:	LIGHT GREY POLYCARBONATE
DIMENSIONS:	1100mm x 92mm x 90MM
LUMINOUS FLUX:	4290lm
IP RATING:	IP66 RATED
LAMP EFFICACY:	142m/W
DIMMING:	NO
COLOUR:	WHITE
COLOUR TEMP:	4000k
WEIGHT:	1.7kg
WARRANTY:	5 years
MOUNTING:	MOUNTED ON THE CEILING OR WALL

TYPE 'H'

47watt LED LIGHT FITTING AS THORN 'COLLEGE 2' LED 6500–840 HF L1500, OR EQUIVALENT BUT THE FITTING SHALL BE PROTECTED FROM BALL IMPACT BY A GALVANISED STEEL CAGE.



THIS FITTING SHALL BE THE SAME FITTING AND OUTPUT OF FITTING AS THE 'TYPE C' FITTING, HOWEVER THIS LIGHT FITTING SHALL BE INSTALLED IN THE GP HALL AND SHALL THEREFORE BE PROTECTED BY A GALVANISED STEEL CAGE TO PROTECT THE LIGHT FROM BALL IMPACT.

THE GALVANISED STEEL CAGE SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR AS PART OF THE WORKS.

ENSURE TO ALLOW FOR THE SUPPLY AND INSTALLATION OF THE GALVANISED STEEL CAGES OVER THE LIGHTS TO PROTECT THE LIGHT (16no IN TOTAL).

TYPE 'X1'

20watt IP65 RATED EXTERNAL LED EYELID LIGHT FITTING AS THORN 'PIAZZA 3' 9–16–27 827–830–840 HF ANT, OR EQUIVALENT



OUTPUT:	20watt
BODY:	ANTHRACITE POLYCARBONATE
DIMENSIONS:	381mm x 196mm x 305mm
LUMINOUS FLUX:	2640lm
LIFETIME:	60,000hrs L80
LAMP EFFICACY:	130m/W
DIMMING:	NO
COLOUR:	ANTHRACITE GREY
COLOUR TEMP:	4000k
WEIGHT:	3.55kg
WARRANTY:	5 years
MOUNTING:	WALL MOUNTED
IP RATING:	IP66

TYPE 'X2'

45watt EXTERNAL LED FLOOD LIGHT AS THORN 'LEDFIT' S 45W A/S CL1 L830, OR EQUIVALENT



OUTPUT:	45watt
BODY:.	DIE–CAST ALUMINIUM
DIMENSIONS:	181mm x 236mm x 48mm
LUMINOUS FLUX:	4300lm
LIFETIME:	50,000hrs L80
LAMP EFFICACY:	96m/W
COLOUR:	ANTHRACITE GREY
COLOUR TEMP:	3000k
WARRANTY:	5 years
MOUNTING:	WALL MOUNTED
IP RATING:	IP66

REMOTE DAYLIGHT DIMMING AND ABSENCE SENSOR AS THORN SENSA MRE DDP, OR EQUIVALENT.



TYPE:	DAYLIGHT AND ABSENCE SENSOR
OPERATION:	SENSOR SHALL DIM THE LIGHTS AUTOMATICALLY IN RESPONSE TO DAYLIGHT LEVELS AND SHALL TURN OFF THE LIGHTS IN RESPONSE TO OCCUPANCY IN THE ROOM
PROPOSED MODEL:	THORN SENSA MRE DDP, OR EQUIVALENT
MOUNTING:	RECESSED INTO THE CEILING
COLOUR:	WHITE
COVER:	360 DEGREES
RANGE:	7METRES AT 2.8METRES
DETECTION:	INFRARED DETECTION
VOLTAGE:	230V

REMOTE PRESENCE DETECTOR/SENSOR AS THORN SENSA MRE DDP, OR EQUIVALENT.



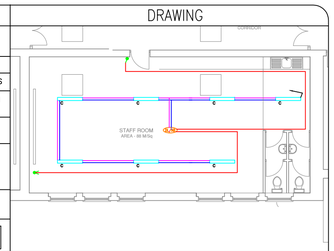
TYPE:	PRESENCE DETECTOR
OPERATION:	SENSOR SHALL TURN ON AND OFF THE LIGHTS AUTOMATICALLY DEPENDANT ON PRESENCE IN THE ROOM. THE LIGHTS SHALL STAY ON FOR 15MINS ONCE PRESENCE IS DETECTED IN THE ROOM AND SHALL TURN OFF IF NO PRESENCE IS DETECTED IN THE ROOM AFTER 15MINS.
PROPOSED MODEL:	THORN SENSA MRE DDP, OR EQUIVALENT
MOUNTING:	RECESSED INTO THE CEILING
COLOUR:	WHITE
COVER:	360 DEGREES
RANGE:	7METRES AT 2.8METRES
DETECTION:	INFRARED DETECTION
VOLTAGE:	230V

SYMBOLS

DL/MS	RECESS MOUNTED STANDALONE DAYLIGHT/ABSENCE SENSOR FOR LIGHTING CONTROL (RECESSED INTO THE CEILING)
	MAINS CABLING (LIVE, EARTH, NEUTRAL) FOR SWITCHING
	MAINS INPUT CABLING (LIVE, EARTH, NEUTRAL) FOR FINAL CIRCUITS
	DSI LOW VOLTAGE PAIR BUS CABLE FOR LIGHTING CONTROL FROM THE LIGHTING SENSOR TO THE LIGHT FITTINGS.
	2–CORE LOW VOLTAGE PAIR BUS CABLE FROM THE LIGHTING SENSOR TO THE PUSH–TO–MAKE LIGHT SWITCH
	ONE–GANG TWO–WAY PUSH–TO–MAKE LIGHT SWITCH. 'PUSH–TO–MAKE' RETRACTIVE LIGHT SWITCH SHALL BE WIRED IN PARALLEL TO THE 2–CORE LOW VOLTAGE BUS CABLE. WHEN PUSHED IT CREATES A SHORT ON THE CABLE.
B	NEW 'TYPE B' LED LIGHT FITTING TO BE SUPPLIED AND INSTALLED IN THE ROOM. REFER TO SPECIFICATION FOR DETAILS

CONTROL CABLES TO BE TWIN CORE LSZH 1.5mm2 CABLE CAN BE RUN WITHIN THE SAME CONTAINMENT AS NORMAL MAINS CABLE WIRING.

DRAWING



TYPICAL DETAIL FOR LIGHTING CONTROL SCHEMATIC FOR OFFICES AND CLASSROOMS AS INDICATED ON THE DRAWINGS

GENERAL LIGHTING SERVICES SYMBOLS

	NEW RETRACTIVE ONE–GANG ONE–WAY PUSH–TO–MAKE LIGHT SWITCH
	NEW RETRACTIVE ONE–GANG TWO–WAY PUS–TO–MAKE LIGHT SWITCH
	NEW RETRACTIVE ONE–WAY PUSH–TO–MAKE LIGHT SWITCH (* DENOTES NUMBER OF GANGS)
	NEW RETRACTIVE TWO–WAY PUS–TO–MAKE LIGHT SWITCH (* DENOTES NUMBER OF GANGS)
	NEW STANDARD ONE–GANG ONE–WAY LIGHT SWITCH
	NEW STANDARD ONE–GANG TWO–WAY LIGHT SWITCH
	NEW STANDARD ONE–WAY LIGHT SWITCH (* DENOTES NUMBER OF GANGS)
	NEW STANDARD TWO–WAY LIGHT SWITCH (* DENOTES NUMBER OF GANGS)
MAIDB–02	NEW MAIN DISTRIBUTION ELECTRICAL BOARD FOR THE SCHOOL BUILDING. BOARD SHALL BE LOCATED IN THE LOCATION AS INDICATED ON DRAWING.
NSDB–*	NEW SUB–DISTRIBUTION ELECTRICAL BOARD FOR THE BUILDING. (* DENOTES NUMBER OF BOARD)
	MAINS WIRING FOR SWITCHING
	MAINS WIRING FOR FINAL CIRCUITS
	CONTROL WIRING FROM SENSOR TO LIGHT FITTINGS FOR LIGHTING CONTROL
	CONTROL WIRING FROM SENSOR TO LIGHT SWITCH FOR LIGHTING CONTROL
PIR	NEW STANDALONE SENSOR FOR OPERATING THE LIGHTING VIA PRESENCE DETECTION (RECESSED)
DL/MS	NEW STANDALONE SENSOR FOR OPERATION OF THE LIGHTING THROUGH DAYLIGHT DIMMING AND ABSENCE DETECTION (RECESSED)
A	NEW 22watt LED LUMINAIRE. LIGHT FITTING SHALL BE SURFACE MOUNTED ON THE CEILING. SEE SPECIFICATION FOR FURTHER DETAILS.
B	NEW 31watt LED LUMINAIRE. LIGHT FITTING SHALL BE SURFACE MOUNTED OR SUSPENDED FROM CEILING. SEE SPECIFICATION FOR FURTHER DETAILS.
C	NEW 47watt LED LUMINAIRE. LIGHT FITTING SHALL BE SURFACE MOUNTED OR SUSPENDED FROM CEILING. SEE SPECIFICATION FOR FURTHER DETAILS.
D	NEW 12watt LED CIRCULAR LUMINAIRE. LIGHT FITTING SHALL BE SURFACE MOUNTED ON THE WALL OR THE CEILING. SEE SPECIFICATION FOR FURTHER DETAILS.
D1	AS PER THE LIGHTING FITTING 'TYPE D' ABOVE BUT THIS LIGHT FITTING SHALL HAVE AN INTEGRATED PIR SENSOR FOR LIGHTING CONTROL. SEE SPECIFICATION FOR FURTHER DETAILS.
F	NEW 16W LED CIRCULAR LUMINAIRE. LIGHT FITTING SHALL BE SURFACE MOUNTED ON THE WALL OR THE CEILING. SEE SPECIFICATION FOR FURTHER DETAILS.
F1	AS PER THE LIGHTING FITTING 'TYPE F' ABOVE BUT THIS LIGHT FITTING SHALL HAVE AN INTEGRATED PIR SENSOR FOR LIGHTING CONTROL. SEE SPECIFICATION FOR FURTHER DETAILS.
G	NEW IP66 RATED 30watt LED LUMINAIRE. LIGHT FITTING SHALL BE SURFACE MOUNTED ON THE CEILING. SEE SPECIFICATION FOR FURTHER DETAILS.
H	NEW 47W LED LUMINAIRE AS 'TYPE C' LED LIGHT FITTINGS TO BE SUPPLIED AND INSTALLED IN THE GP HALL. SEE SPECIFICATION FOR FURTHER DETAILS. LIGHT FITTING SHALL BE SURFACE MOUNTED AND SHALL BE PROTECTED BY A GALVANISED STEEL CAGE. THE GALVANISED STEEL CAGE SHALL BE INSTALLED OVER THE LIGHT FITTING TO PROTECT THE LIGHT FITTING FROM BALL IMPACT. THE GALVANISED STEEL CAGE SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR AS PART OF THE WORKS.
X1	NEW 20W LED EXTERNAL WALL MOUNTED EYELID LIGHT FITTING. SEE SPECIFICATION FOR FURTHER DETAILS.
X2	NEW 45W LED EXTERNAL WALL MOUNTED FLOODLIGHT. SEE SPECIFICATION FOR FURTHER DETAILS.
PIR	NEW STANDALONE SENSOR FOR OPERATING THE LIGHTING VIA PRESENCE DETECTION (SURFACE MOUNTED)
EMCC	EXISTING MCC CONTROLS PANEL LOCATED IN THE BOILERHOUSE (TO BE RETAINED)

GENERAL NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE PARTICULAR SPECIFICATIONS.

2. THE CONTRACTOR SHALL CO–ORDINATE FULLY WITH ALL OTHER TRADES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO–ORDINATION OF ALL SERVICES AND WORKS REQUIRED FOR THE PROJECT. THE CONTRACTOR SHALL CO–ORDINATE FULLY WITH ALL OTHER TRADES BEFORE COMMENCING WORK.

3. EXTRA COSTS INCURRED DUE TO THE CO–ORDINATION EXERCISE NOT BEING COMPLETED WILL NOT BE ACCEPTED BY THE ENGINEER.

4. DO NOT SCALE THIS DRAWING. ALL DIMENSIONS TO BE TAKEN ON SITE. ALL DIMENSIONS IN mm, UNLESS STATED OTHERWISE

5. EXACT LOCATIONS OF ALL SERVICES TO BE AGREED ON SITE. FINAL LOCATIONS OF ALL SERVICES TO BE CO–ORDINATED ON SITE WITH EXISTING LOOSE AND FIXED FURNITURE LAYOUTS IN THE ROOM.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL WORKS AND BUILDERS WORKS AS IDENTIFIED ON THE DRAWINGS AND IN THE SPECIFICATIONS.

7. THE MAJORITY OF THE EXISTING ELECTRICAL INSTALLATION IN THE BUILDING SHALL BE DECOMMISSIONED AND REMOVED AND REPLACED WITH NEW ELECTRICAL INSTALLATIONS. THE CONTRACTOR SHALL ALLOW FOR DECOMMISSIONING THE FOLLOWING ITEMS IN THE BUILDING AS INDICATED ON THE DRAWINGS:

- THE EXISTING ELECTRICAL BOARDS IN THE BUILDING SHALL BE DECOMMISSIONED AND REMOVED (APART FROM THE NEW COOKER BOARDS).
- THE EXISTING POWER AND GENERAL SERVICES INSTALLATION THROUGHOUT THE BUILDING (APART FROM THE NEW COOKER BOARDS) SHALL BE DECOMMISSIONED AND REMOVED. INCLUDING ALL SOCKETS, SPURS, ISOLATORS, CABLING, ETC.
- THE EXISTING GENERAL LIGHTING SERVICES INSTALLATION THROUGHOUT THE BUILDING (APART FROM THE ASD CENTRAL BLOCK WHICH IS TO BE RE–WIRED ONLY AS INDICATED ON THE DRAWINGS) AND ALL THE EXTERNAL LIGHTING SHALL BE DECOMMISSIONED AND REMOVED INCLUDING ALL LIGHT FITTINGS, CABLING, CONTAINMENT, ETC.
- THE EXISTING EMERGENCY LIGHTING SERVICES INSTALLATION THROUGHOUT THE BUILDING SHALL BE DECOMMISSIONED AND REMOVED INCLUDING ALL EMERGENCY LIGHT FITTINGS, CABLING, CONTAINMENT, ETC.
- THE EXISTING FIRE ALARM SERVICES INSTALLATION THROUGHOUT THE BUILDING SHALL BE DECOMMISSIONED AND REMOVED INCLUDING ALL SMOKE DETECTORS, HEAT DETECTORS, PANELS, ETC.

8. THE CONTRACTOR SHALL BE RESPONSIBLE TO IDENTIFY SUITABLE FINAL ROUTES FOR ALL CONTAINMENT AND TRAY THROUGHOUT THE BUILDING FOR THE NEW ELECTRICAL SERVICES AND CABLING. NEW MAIN RUNS OF ELECTRICAL TRUNKING/TRAY SHALL BE INSTALLED IN THE AREAS AS INDICATED ON THE DRAWINGS BUT THIS IS INDICATIVE ONLY AND IF THE CONTRACTOR FINDS A MORE CONVENIENT ROUTE FOR ELECTRICAL CONTAINMENT ON SITE THEN THAT WILL BE ACCEPTABLE.

GENERAL LIGHTING SERVICES NOTES:

8. THE CONTRACTOR SHALL ALLOW FOR DECOMMISSIONING AND REMOVING THE EXISTING GENERAL LIGHTING INSTALLATION THROUGHOUT THE BUILDING (APART FROM THE ASD WHICH SHALL RETAIN THE EXISTING LIGHT FITTINGS AND RE–WIRE THEM TO THE NEW SUB DISTRIBUTION BOARDS) AND THE EXISTING EXTERNAL LIGHT FITTINGS AROUND THE BUILDING. IN THE MAJORITY OF THE BUILDING, THE WORKS INCLUDES THE DECOMMISSIONING AND REMOVAL OF THE EXISTING INTERNAL LIGHT FITTINGS, EXISTING EXTERNAL LIGHT FITTINGS, EXISTING CABLING, CONTROLS, SWITCHES, ETC. THROUGHOUT THE BUILDING (APART FROM THE ASD WHICH SHALL RETAIN THE EXISTING LIGHT FITTINGS AND RE–WIRE THEM TO THE NEW SUB DISTRIBUTION BOARDS). A NEW LIGHTING INSTALLATION SHALL BE INSTALLED INTERNALLY AND EXTERNALLY FOR THE BUILDING (APART FROM THE ASD WHICH SHALL RETAIN THE EXISTING LIGHT FITTINGS AND RE–WIRE THEM TO THE NEW SUB DISTRIBUTION BOARDS) AS HIGHLIGHTED IN THE TENDER DOCUMENTS.

9. THE EXISTING GENERAL LIGHT FITTINGS, IN THE ASD AREA SHALL BE RETAINED. THE EXISTING CABLING IN PLACE FOR THESE LIGHT FITTINGS SHALL BE RE–WIRED TO THE NEW SUB–DISTRIBUTION ELECTRICAL BOARD WHEN INSTALLED.

10. THE CONTRACTOR SHALL ALLOW FOR THE SUPPLY, INSTALLATION, WIRING AND COMMISSIONING OF THE NEW INTERNAL LIGHTING INSTALLATION IN THE BUILDING AND EXTERNAL LIGHTING INSTALLATION AROUND THE BUILDING AS INDICATED ON THE DRAWINGS. REFER TO DRAWINGS FOR QUANTITIES AND LOCATIONS.

11. ALL NEW LIGHT FITTINGS SPECIFIED FOR OFFICES, CLASSROOMS, ETC. IN THE BUILDING SHALL HAVE A REMOTE PIR/DAYLIGHT SENSOR IN EACH OF THE ROOMS TO CONTROL THE LIGHTING IN THE RELEVANT ROOM. THIS SENSOR SHALL BE A DEDICATED SENSOR FOR EACH ROOM AND THE LIGHT FITTINGS IN THE ROOM SHALL HAVE THE FACILITY TO TURN OFF THE LIGHTS WHEN DAYLIGHT LEVELS ARE ADEQUATE, DAYLIGHT SENSING TO DIM THE LIGHTS AS REQUIRED TO 'OFF' IN RESPONSE TO THE CHANGES IN DAYLIGHT LEVELS AND ABSENCE DETECTION TO TURN OFF LIGHTS WHEN ROOMS ARE NOT OCCUPIED. IN EACH ROOM, THE DEDICATED STANDALONE SENSOR SHALL BE LINKED TO A 'PUSH–TO–MAKE' RETRACTIVE LIGHT SWITCH. SEE DRAWING AND SPECIFICATION FOR LIGHTING SCHEDULE AND FURTHER INFORMATION.

12. LIGHTING IN CORRIDORS SHALL BE CONTROLLED BY PRESENCE DETECTION IN CONJUNCTION WITH STANDARD 'ON/OFF' LIGHT SWITCHES. THE LIGHT SWITCHES SHALL BE PROVIDED TO FACILITATE SWITCHING OFF THE LIGHTS BY THE PRINCIPAL/CARETAKER WHEN NATURAL DAYLIGHT LEVELS ARE CONSIDERED ADEQUATE AND LIGHTING IS NOT REQUIRED IN THESE AREAS.

13. ALL LIGHT FITTINGS SPECIFIED FOR TOILET CUBICLES AND STORES SHALL BE CONTROLLED BY EITHER A STANDALONE PRESENCE DETECTOR OR AN INTEGRATED PRESENCE SENSOR INCORPORATED INTO THE LIGHT FITTING OR STANDALONE SENSORS. THE LIGHT FITTINGS IN THESE AREAS SHALL OPERATE SOLELY VIA PRESENCE DETECTION. SEE DRAWING FOR QUANTITY AND LOCATION OF LIGHT FITTINGS. THERE ARE NO LIGHT SWITCHES REQUIRED IN THESE AREAS. THIS SENSOR SHALL HAVE THE FACILITY TO TURN ON OR OFF THE LIGHTS IN RESPONSE TO OCCUPANCY. SEE DRAWING AND SPECIFICATION FOR LIGHTING SCHEDULE AND FURTHER INFORMATION. THERE IS NO LIGHT SWITCHES REQUIRED IN THESE AREAS.

14. ALL OF THE LIGHT SWITCHES INSTALLED THROUGHOUT THE TEACHING SPACES AND OFFICES SHALL BE RETRACTIVE 'PUSH–TO–MAKE' TYPE LIGHT SWITCHES FOR USE WITH THE LIGHTING CONTROLS IN EACH ROOM/AREA.

15. THE LIGHT SWITCHES INSTALLED IN CORRIDORS OF THE BUILDING SHALL BE STANDARD LIGHT SWITCHES. REFER TO THE DRAWING FOR LOCATIONS FOR THE STANDARD LIGHT SWITCHES.

16. THE CONTRACTOR SHALL ALLOW FOR COMMISSIONING THE LIGHTING CONTROLS WITH THE LIGHTING SUPPLIER. LUX LEVELS AND LIGHTING CONTROLS STRATEGY AS HIGHLIGHTED IN THE SPECIFICATIONS.

17. ALLOW FOR SUPPLYING AND INSTALLING ALL MAINS WIRING AND LOW VOLTAGE CABLES BETWEEN LIGHT FITTINGS ON THE SAME LIGHTING CIRCUIT FOR LIGHTING CONTROL AND POWER. REFER TO LIGHTING DETAILS ON THE DRAWINGS FOR FURTHER INFORMATION.

18. SEE SPECIFICATION FOR FURTHER DETAILS AND INFORMATION ON LIGHT FITTINGS. LIGHT FITTINGS SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR. SEE SPECIFICATION FOR THE LIGHT FITTINGS THAT ARE TO BE SUPPLIED BY THE CONTRACTOR.

19. NEW WALL MOUNTED EXTERNAL LIGHT FITTINGS SHALL BE INSTALLED AROUND THE PERIMETER OF THE BUILDING AS INDICATED ON THE DRAWINGS. ALL EXTERNAL LIGHTING FOR THE BUILDING SHALL BE CONTROLLED FROM THE NEW DISTRIBUTION ELECTRICAL BOARDS IN THE BUILDING IN THE LOCATIONS AS INDICATED. EXTERNAL LIGHTING FOR THE BUILDING SHALL BE CONTROLLED VIA A INDEPENDENT PHOTOCELL AND DIGITAL TIME CLOCK COMBINATION FOR THE BUILDING. A 'HAND–OVER–AUTO' SWITCH SHALL BE INSTALLED INSIDE THE BOARD. ALL TIME CLOCKS SHALL BE INTEGRAL TO ELECTRICAL DISTRIBUTION BOARDS FOR THE BUILDING.

20. THE CONTRACTOR SHALL ADHERE TO THE RECOMMENDED LUX LEVELS FOR EACH SPACE IN THE BUILDING. THEY ARE AS FOLLOWS:

TEACHING SPACES:	300 LUX AT 700mm AFFL
CIRCULATION:	150 LUX AT 700mm AFFL
TOILET:	150 LUX AT 700mm AFFL
DISABLED TOILET:	200 LUX AT 700mm AFFL
STORES:	150 LUX AT 700mm AFFL
OFFICES:	500 LUX AT 700mm AFFL

REV	DATE	PREPARED BY/PROJECT ENGINEER	QUALITY CHECK BY:
T1	02.11.26	R. WHYTE	M. GORMLEY

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Drawing Status
TENDER

Job Title
RATOATH JUNIOR N.S.
RATOATH,
CO. MEATH.
A85 P296

Drawing Title
NEW LIGHTING SERVICES INSTALLATION LAYOUT FOR 'AREA C' ON THE FIRST FLOOR OF THE BUILDING

Architect

Drawing No:
63(E003)

Job No.	Drawn by:	Scale:	Rev.
26–066	R.W.	1:125 on A1	T1