



ELECTRICAL DESIGN GROUP

ELECTRICAL BUILDING SERVICES CONSULTANTS

P.O. Box 15, SHERWOOD Q. 4075

Phone: (07) 3278 4375

Website: www.edg.net.au Email: brisbane@edg.net.au

C3474a - KINGS CHRISTIAN COLLEGE - CHAMBERS FLAT, SENIOR SCHOOL CHA12

C3474a-0002(C).xls

ELECTRICAL EQUIPMENT SCHEDULE

REVISION C - 16 FEBRUARY 2026

THE EQUIPMENT SUPPLIER CONTACT DETAILS MAY BE AVAILABLE ON THE EDG WEBSITE VIA THE FOLLOWING LINK
www.edg.net.au/links.html

TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
L1	4000K LED 17.2W/M IP20 24V DC LED STRIP	ROD SUSPENDED 2800 LONG EXTRUSION LEVEL WITH THE UNDERSIDE OF THE SUSPENDED ACOUSTIC PANELS. PROVIDE THE EXTRUSION WITH AN OPAL DIFFUSER AND ALL NECESSARY ACCESSORIES. PROVIDE A DRIVER IN A REMOTE CONCEALED POSITION NOTED ON THE AS CONSTRUCTED DRAWINGS. IT IS ACCEPTABLE TO SUPPLY MULTIPLE L1 FITTINGS FROM A SINGLE DRIVER IF IT IS APPROPRIATELY SIZED.	BLACK EXTRUSION AND SUSPENSION	M-ELEC ML-ALUSUS-K-V3 + ML-VL-17.2-.NW	C
L2	4000K LED 17.2W/M IP20 24V DC LED STRIP	ROD SUSPENDED 2400 LONG EXTRUSION LEVEL WITH THE UNDERSIDE OF THE SUSPENDED ACOUSTIC PANELS. PROVIDE THE EXTRUSION WITH AN OPAL DIFFUSER AND ALL NECESSARY ACCESSORIES. PROVIDE A DRIVER IN A REMOTE CONCEALED POSITION NOTED ON THE AS CONSTRUCTED DRAWINGS. IT IS ACCEPTABLE TO SUPPLY MULTIPLE L2 FITTINGS FROM A SINGLE DRIVER IF IT IS APPROPRIATELY SIZED.	BLACK EXTRUSION AND SUSPENSION	M-ELEC ML-ALUSUS-K-V3 + ML-VL-17.2-.NW	C
L3	60W 4000K LED	WALL MOUNTED AT RL 28. 200 UNLESS NOTED OTHERWISE ADJUSTABLE IP65 55 DEG FLOOD C/W INTEGRAL DRIVER	SILVER	GAMMA ILLUMINATION ALTUS 1342-4K	B
L4	4000K LED 17.2W/M IP20 24V DC LED STRIP	ROD SUSPENDED 1000 LONG EXTRUSION LEVEL WITH THE UNDERSIDE OF THE SUSPENDED ACOUSTIC PANELS. PROVIDE THE EXTRUSION WITH AN OPAL DIFFUSER AND ALL NECESSARY ACCESSORIES. PROVIDE A DRIVER IN A REMOTE CONCEALED POSITION NOTED ON THE AS CONSTRUCTED DRAWINGS. IT IS ACCEPTABLE TO SUPPLY MULTIPLE L3 FITTINGS FROM A SINGLE DRIVER IF IT IS APPROPRIATELY SIZED.	BLACK EXTRUSION AND SUSPENSION	M-ELEC ML-ALUSUS-K-V3 + ML-VL-17.2-.NW	A
L5	4000K LED 17.2W/M IP20 24V DC LED STRIP	ROD SUSPENDED 1800 LONG EXTRUSION LEVEL WITH THE UNDERSIDE OF THE SUSPENDED ACOUSTIC PANELS. PROVIDE THE EXTRUSION WITH AN OPAL DIFFUSER AND ALL NECESSARY ACCESSORIES. PROVIDE A DRIVER IN A REMOTE CONCEALED POSITION NOTED ON THE AS CONSTRUCTED DRAWINGS. IT IS ACCEPTABLE TO SUPPLY MULTIPLE L4 FITTINGS FROM A SINGLE DRIVER IF IT IS APPROPRIATELY SIZED.	BLACK EXTRUSION AND SUSPENSION	M-ELEC ML-ALUSUS-K-V3 + ML-VL-17.2-.NW	C
L6	22W 4000K LED	SURFACE MOUNTED CAN 55 DEG BEAM DOWNLIGHT C/W REMOTE DRIVER	BLACK	GAMMA ILLUMINATION LANO CORBEL 1440SM-VWFL-4K-22W	B
L7	22W 4000K LED	RECESSED 52 DEG BEAM DOWNLIGHT C/W REMOTE DRIVER	WHITE TRIM	GAMMA ILLUMINATION CORBEL 1401-4K-22W	A



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L8	28W 4000K LED	600 X 600 LAY IN FLAT PLATE LED FITTING C/W REMOTE DRIVER MOUNTED IN A SURFACE MOUNTING KIT	WHITE TRIM	GAMMA ILLUMINATION PHANTOM 600X600 88 SERIES 28W C/W SCREW FREE SURFACE KIT	A
L9	4000K LED 17.2W/M IP20 24V DC LED STRIP	ROD SUSPENDED 2100 LONG EXTRUSION LEVEL WITH THE UNDERSIDE OF THE SUSPENDED ACOUSTIC PANELS. PROVIDE THE EXTRUSION WITH AN OPAL DIFFUSER AND ALL NECESSARY ACCESSORIES. PROVIDE A DRIVER IN A REMOTE CONCEALED POSITION NOTED ON THE AS CONSTRUCTED DRAWINGS. IT IS ACCEPTABLE TO SUPPLY MULTIPLE L9 FITTINGS FROM A SINGLE DRIVER IF IT IS APPROPRIATELY SIZED.	BLACK EXTRUSION AND SUSPENSION	M-ELEC ML-ALUSUS-K-V3 + ML-VL-17.2-.NW	C
L10	4000K LED 17.2W/M IP20 24V DC LED STRIP	ROD SUSPENDED 3600 LONG EXTRUSION LEVEL WITH THE UNDERSIDE OF THE SUSPENDED ACOUSTIC PANELS. PROVIDE THE EXTRUSION WITH AN OPAL DIFFUSER AND ALL NECESSARY ACCESSORIES. PROVIDE A DRIVER IN A REMOTE CONCEALED POSITION NOTED ON THE AS CONSTRUCTED DRAWINGS. IT IS ACCEPTABLE TO SUPPLY MULTIPLE L10 FITTINGS FROM A SINGLE DRIVER IF IT IS APPROPRIATELY SIZED.	BLACK EXTRUSION AND SUSPENSION	M-ELEC ML-ALUSUS-K-V3 + ML-VL-17.2-.NW	C
L11	880LM /M 4000K 24V LED	LED STRIP LIGHT IN A SCREW FIXED EXTRUSION C/W OPAL DIFFUSER MOUNTED ON THE CEILING PELMET / BULKHEAD AS PER THE ARCHITECTURAL DETAIL. PROVIDE A REMOTE POWER SUPPLY LOCATED IN A CONCEALED ACCESSIBLE POSITION NOTED ON THE AS CONSTRUCTED DOCUMENTS.	NATURAL	MELEC ML-ALU-1407-2M	A
L12	13W 4000K LED	RECESSED 52 DEG BEAM DOWNLIGHT C/W REMOTE DRIVER	WHITE TRIM	GAMMA ILLUMINATION COBALT 1402-4K-13W	B
L13	13W 4000K LED	RECESSED 40 DEG BEAM DOWNLIGHT C/W REMOTE DRIVER	WHITE TRIM	GAMMA ILLUMINATION CORBEL 1410-4K-13W	A
L14	8W 4000K LED	RECESSED 47 DEG BEAM DOWNLIGHT C/W REMOTE DRIVER	WHITE TRIM	GAMMA ILLUMINATION MYLO 1004-WFL-4K-8W	A
L15	36W LED 4000K	1200 LONG SURFACE MOUNTED IP65 DIFFUSED BATTEN C/W INTEGRAL ELECTRONIC CONTROL GEAR AND PRESENCE DETECTION SENSOR	LIGHT GREY	GAMMA STORM 1558-CCT-36W-MS	A
L16	36W LED 4000K	1200 LONG SURFACE MOUNTED IP65 DIFFUSED BATTEN C/W INTEGRAL ELECTRONIC CONTROL GEAR	LIGHT GREY	GAMMA STORM 1558-CCT-36W-MS	A



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L17	28W 4000K LED	SURFACE MOUNTED 109 DEG BEAM BUNKER C/W INTEGRAL DRIVER	BLACK TRIM	GAMMA ILLUMINATION MAXIMUS 1355-4K-28W	A
L18	28W 4000K LED	SURFACE MOUNTED 109 DEG BEAM BUNKER C/W INTEGRAL DRIVER	BLACK TRIM	GAMMA ILLUMINATION MAXIMUS 1355-4K-28W	A
L19	28W 4000K LED	1000 HIGH BOLLARD LIGHT C/W INTEGRAL DRIVER AND RAG BOLT MOUNTING ENSURE THE BASE OF THE BOLLARD IS 50MM ABOVE THE SURROUNDING LANDSCAPE WITH A CONCRETED BATTER.	BLACK	GAMMA ILLUMINATION BOLO 1462-4K-28W + RAG BOLT ASSEMBLY	B
L20	28W 4000K LED	INGROUND UP LIGHT C/W INTEGRAL DRIVER AND CONCRETE SURROUND ENSURE THE TOP OF THE FITTING IS 50MM ABOVE THE SURROUNDING LANDSCAPE WITH A CONCRETED BATTER.	STAINLESS STEEL	GAMMA ILLUMINATION AURA 1059-FL-4K-28W	B
E1	LED	EMERGENCY LIGHT: RECESSED NON-MAINTAINED EMERGENCY LIGHT. AS2293 CLASSIFICATION C0-D40 - C90-D40.	WHITE	STANILITE SF1LEDP	A
E2	LED	EMERGENCY LIGHT: RECESSED NON-MAINTAINED EMERGENCY LIGHT MOUNT THE E2 FITTING IN A CUSTOM SURFACE MOUNTED CAN SUCH THAT THE CAN IS LEVEL WITH THE UNDERSIDE OF THE ADJACENT SUSPENDED ACOUSTIC PANEL.	BLACK FITTING AND BLACK MOUNTING CAN	STANILITE SF1LEDP PLUS CUSTOM MOUNTING CAN	A
E3	LED	EMERGENCY LIGHT: SURFACE MOUNTED RECESSED NON-MAINTAINED EMERGENCY LIGHT. AS2293 CLASSIFICATION C0-D40 - C90-D40.	BLACK	STANILITE ECOSPITFIREBOXBLK	B
E4	LED	EMERGENCY LIGHT: SURFACE MOUNTED RECESSED NON-MAINTAINED EMERGENCY LIGHT. AS2293 CLASSIFICATION C0-D40 - C90-D40.	WHITE	STANILITE ECOSPITFIREBOXBLK	B
EX	LED	EXIT LIGHT: MAINTAINED 24M VIEWING DISTANCE EXIT LIGHT C/W DIFFUSERS & DIRECTIONAL ARROWS AS SHOWN. CEILING OR WALL MOUNT BETWEEN 2100mm & 2700mm AFFL IF THERE IS NO VERTICAL SURFACE TO MOUNT THE FITTING ON WITHIN THIS RANGE CONFIRM THE MOUNTING HEIGHT WITH THE ENGINEER. AS2293 CLASSIFICATION C0-D8 - C90-E3.2.	WHITE	STANILITE PQFLEDP	A
EX WP	LED	EXIT LIGHT: MAINTAINED WEATHER PROOF 24M VIEWING DISTANCE EXIT LIGHT C/W DIFFUSERS & DIRECTIONAL ARROWS AS SHOWN. CEILING OR WALL MOUNT BETWEEN 2100mm & 2700mm AFFL IF THERE IS NO VERTICAL SURFACE TO MOUNT THE FITTING ON WITHIN THIS RANGE CONFIRM THE MOUNTING HEIGHT WITH THE ENGINEER. AS2293 CLASSIFICATION C0-D1.25- C90-D2	WHITE	STANILITE WPELLBE	A

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EMERGENCY PACK		LIGHT FITTINGS THAT ARE DESIGNATED AS BEING PROVIDED WITH AN EMERGENCY PACK ARE TO BE PROVIDED WITH AN INTEGRAL AS2293 EMERGENCY PACK. THE FITTINGS ARE TO BE NON MAINTAINED WITH ALL LAMPS SWITCHED AS PER THE LIGHTING CONTROL FOR THAT SPACE UNLESS NOTED OTHERWISE. REFER TO THE NOTES FOR FURTHER DETAILS OF THE CONFIGURATION AND SWITCHING OF EMERGENCY LIGHTS.			A
ONE-WAY LIGHT SWITCH		ONE-WAY LIGHT SWITCH C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNTED AT 1000mm AFFL UNLESS NOTED OTHERWISE.	WHITE	CLIPSAL C2000 SERIES 30USM	A
TWO-WAY LIGHT SWITCH		TWO-WAY LIGHT SWITCH C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNTED AT 1000mm AFFL UNLESS NOTED OTHERWISE.	WHITE	CLIPSAL C2000 SERIES 30USM	A
SWITCH PANEL SPx		MULTIGANG SWITCH PANEL CONFIGURED AS PER THE LIGHTING CONTROL SCHEMATIC. MOUNTED AT 1000mm AFFL UNLESS NOTED OTHERWISE.	WHITE	CLIPSAL C2000 SERIES 30USM	A
PROXIMITY DETECTOR SWITCH (PD)		ADJUSTABLE FLUSH RECESSED 360 DEGREE PIR PRESENCE DETECTOR TO OPERATE THE ASSOCIATED LIGHTS FOR A PRE-SET AMOUNT OF TIME. ADJUST THE TIME AND SENSITIVITY ON SITE AS DIRECTED BY THE ENGINEER. SUBMIT DETAILS OF THE MOVEMENT DETECTOR SWITCH FOR APPROVAL PRIOR TO ORDERING	WHITE	CLIPSAL	A
SINGLE POWER OUTLET		SINGLE POWER OUTLET C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND. MOUNT AT 300mm AFFL U.N.O. RATING 10A U.N.O.	WHITE	CLIPSAL C2000 SERIES	A
DOUBLE POWER OUTLET		DOUBLE POWER OUTLET C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND. MOUNT AT 300mm AFFL U.N.O. RATING 10A U.N.O.	WHITE	CLIPSAL C2000 SERIES	A
DRINK FOUNTAIN OUTLET (DF)		IP54 WEATHERPROOF SINGLE 10 AMP POWER OUTLET C/W COVER FLAP OVER SOCKET MOUNTED WITHIN THE DRINK FOUNTAIN HOUSING.	-	CLIPSAL WSCF227F	A
WEATHERPROOF POWER OUTLET (WP)		IP54 WEATHERPROOF SINGLE / DOUBLE POWER OUTLET AS NOTED ON DRAWING C/W COVER FLAP OVER SOCKET. MOUNT AT MINIMUM 1100mm AFFL U.N.O. RATING 10A U.N.O.	-	CLIPSAL WSCF227F	A
IP56 WEATHERPROOF POWER OUTLET (WP)		IP56 WEATHERPROOF SINGLE / DOUBLE POWER OUTLET AS NOTED ON DRAWING. MOUNT AT MINIMUM 1100mm AFFL U.N.O. RATING 10A U.N.O.	-	CLIPSAL "56 SERIES"	A
RECESS KIT (RK)		VERTICALLY ORIENTATED WALL BOX TO ALLOW THE OUTLET TO BE RECESSED WITHIN THE WALL CAVITY	WHITE	REPELEC RECWP1WH	A
SPECIAL PURPOSE POWER OUTLET		SPECIAL PURPOSE POWER OUTLET. MOUNT AT 300mm AFFL U.N.O. RATING 10A U.N.O. SIZE AND TYPE AS NOTED	-	-	A

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HAND DRYER CONNECTION (HD)		THE ELECTRICAL SUB CONTRACTOR IS TO TAKE POSSESSION OF THE HAND DRYER AND INSTALL IT WITH 20A ISOLATING SWITCH WALL MOUNTED CONNECTED TO THE HAND DRYER UNIT AS PER DETAIL. PROVIDE CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND	WHITE	CLIPSAL "C2000 SERIES"	A
SINGLE-PHASE ISOLATOR		SINGLE-PHASE WEATHERPROOF ISOLATOR. MOUNT AT 1350mm AFFL U.N.O. RATING 20A U.N.O. CONNECT TO EQUIPMENT VIA FLEXIBLE CONDUIT.	-	CLIPSAL WHT20	A
THREE-PHASE ISOLATOR		THREE-PHASE WEATHERPROOF ISOLATOR. MOUNT AT 1350mm AFFL U.N.O. RATING 20A U.N.O. CONNECT TO EQUIPMENT VIA FLEXIBLE CONDUIT. "RSD" DENOTES ROLLER SHUTTER DOOR SUPPLY - COORDINATE LOCATION ONSITE WITH MOTOR.	-	CLIPSAL WHT35	A
WORKSTATION OUTLETS (A1)		PROVIDE EACH A1 WORKSTATION OUTLET POINT AS A 20 AMP GPO AND EIGHT CAT 6 UTP COMMUNICATIONS SOCKETS WITHIN THE CEILING SPACE. PROVIDE EACH COMMUNICATION OUTLET WITH 25M OF SPARE CABLE COILED IN THE CEILING SPACE TO ALLOW THE OUTLETS TO BE RELOCATED TO THE DESKS BELOW ONCE PROVIDED BY THE COLLEGE.			B
MSB		EXISTING MAIN SWITCHBOARD TO BE PROVIDED WITH A NEW MCCB TO SUPPLY DB-12 AS PER THE POWER SCHEMATIC AND ASSOCIATED NOTES.			A
DB-12		DISTRIBUTION BOARD DB-12. PROVIDE A NEW DISTRIBUTION BOARD DB-12 AS PER THE POWER SCHEMATICS AND NOTES. PROVIDE A SHOP DRAWING THE ESCUTCHEON IS TO BE HINGED AND SECURED VIA 1/4 TURN LATCHES. ENSURE THE ESCUTCHEON CAN BE OPENED WITHOUT ISOLATING THE POWER.			A
DB-12P		PROVIDE A NEW DISTRIBUTION BOARD DB-12P AS PER THE DB-12P SCHEDULE, POWER SCHEMATICS AND NOTES. PROVIDE A SHOP DRAWING THE ESCUTCHEON IS TO BE HINGED AND SECURED VIA 1/4 TURN LATCHES. ENSURE THE ESCUTCHEON CAN BE OPENED WITHOUT ISOLATING THE POWER.			A
DB-12L		PROVIDE A NEW DISTRIBUTION BOARD DB-12L AS PER THE DB-12L SCHEDULE, POWER SCHEMATICS AND NOTES. PROVIDE A SHOP DRAWING THE ESCUTCHEON IS TO BE HINGED AND SECURED VIA 1/4 TURN LATCHES. ENSURE THE ESCUTCHEON CAN BE OPENED WITHOUT ISOLATING THE POWER.			A
MSSB-12		NEW MSSB PROVIDED AS PART OF THE MECHANICAL SERVICES SUB CONTRACT. PROVIDE A MCCB IN THE MSB AND SUBMAIN AS PER THE POWER SCHEMATIC TO SUPPLY THE MSSB-12.			A
ELECTRICAL RISER		PROVIDE THE ELECTRICAL RISER WITH A 450 WIDE GALVANIZED POWER CABLE LADDER FROM THE GROUND FLOOR TO THE LEVEL 1 CEILING SPACE AND A 300 WIDE GALVANIZED COMMUNICATIONS CABLE TRAY FROM THE GROUND FLOOR TO THE ROOF SPACE. TURN THE C3 AND C4 CONDUITS UP TO THE ASSOCIATED TRAY / LADDER.			B
M1		SUPPLY AUTHORITY CODE COMPLIANT LV MAXIMUM DEMAND TARIFF METER. TO REMAIN AS IS			A
M2		EXISTING PRIVATE MULTI FUNCTION METER TO REMAIN AS IS.			A



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M3		NCC PART J ENERGY METER.			B
M4		SOLAR SMART METER.			B
MTS		EXISTING MANUAL TRANSFER SWITCH TO REMAIN AS IS.			A
CT		EXISTING SOLAR PROTECTION CTS TO REMAIN AS IS.			A
SM		EXISTING SOLAR NETWORK SMART METER TO REMAIN AS IS.			A
MU		MOULDED CASE CIRCUIT BREAKER MOTOR UNIT			B
WPR		WIRELESS CONTROLLED PROTECTION RELAY TO BE COMPATIBLE / INTERFACED WITH THE EXISTING WIRELESS PROTECTION SYSTEM.			B
DL		SOLAR DATA LOGGER TO BE THE SAME MODEL AS USED ON BUILDING CHA03.			B
GSD		SOLAR GENERATION SIGNALLING DEVICE.			B
SECURITY EQUIPMENT		SECURITY EQUIPMENT TO BE PROVIDED BY THE SECURITY CONTRACTOR. PROVIDE AN INTERFACE TO THE SECURITY SYSTEM SUCH THAT THE INTERNAL LIGHTS ARE CONTROLLED VIA A DRY CONTACT FROM THE SECURITY SYSTEM SO THE INTERNAL LIGHTS ARE AUTOMATICALLY TURNED OFF / DISABLED WHEN THE SECURITY SYSTEM IS ARMED.			B
COMMUNICATIONS RACK CR-4		EXISTING COMMUNICATIONS RACK TO BE USED TO ACCOMMODATE THE NEW FIBRE CABLE. UPGRADE THE FIBOT AS REQUIRED.			A
COMMUNICATIONS RACK CR-12		PROVIDE CR-12 AS A FREE STANDING 41 RU MINIMUM 800 DEEP COMMUNICATIONS CONNECTED TO CR-1 VIA AN UNDERGROUND LOOSE TUBE GEL FILLED 12 CORE OS2 OPTICAL FIBRE CABLES FULLY TERMINATED WITH LC CONNECTORS. PROVIDE CR-12 WITH A FIBOT AND ALL NECESSARY PATCH PANELS TO ACCOMMODATE THE COMMUNICATIONS OUTLETS, CCTV POINTS AND VAPE POINTS. PROVIDE CR-12 WITH, CASTERS, TWO RACK MOUNTED SHELVES, CABLE MANAGEMENT AND TWO 10 PORT POWER RAILS. PROVIDE ALL OF THE CABLE CONNECTED TO CR-12 WITH SUFFICIENT LENGTH TO ALLOW THE RACK TO BE MOVED 1000 OUT FROM THE CUPBOARD. PROVIDE THE RACK WITH TWO NO AUSTRALIAN MONITOR HS2250P 2 X 250W AMPLIFIERS MOUNTED AT THE TOP OF THE RACK. CONNECT ONE OF THE AMPLIFIER CHANNELS TO THE INTERNAL PUBLIC ADDRESS SPEAKERS, ONE OF THE AMPLIFIER CHANNELS TO THE GROUND LEVEL PUBLIC ADDRESS SPEAKERS, AONE OF THE AMPLIFIER CHANNELS TO THE EXTERNAL PUBLIC ADDRESS SPEAKER WITH THE FINAL CHANNEL SPARE. PROVIDE THE TOP OF THE RACK WITH FOUR TEMPERATURE CONTROLLED FANS.			B
COMMUNICATIONS OUTLET		RJ45 CAT-6 COMMUNICATIONS OUTLET, CABLED BACK TO A CAT 6 PATCH PANEL IN COMMUNICATIONS RACK CR-12 VIA BLUE 4-PAIR CAT-6 UTP CABLE. MOUNT UP TO 3 RJ45 OUTLETS PER MULTI-GANG FACEPLATE WITH SEPARATE PERMANENT LABELLING FOR EACH OUTLET. MOUNT AT 300 AFFL U.N.O	WHITE	CLIPSAL C2000 SERIES	B



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CAT 6A STP COMMUNICATIONS OUTLET		RJ45 CAT-6A STP COMMUNICATIONS OUTLET, CABLED BACK TO A CAT 6 PATCH PANEL IN COMMUNICATIONS RACK CR-12 VIA A BLUE 4-PAIR CAT-6A STP CABLE. MOUNT UP TO 3 RJ45 OUTLETS PER MULTI-GANG FACEPLATE WITH SEPARATE PERMANENT LABELLING FOR EACH OUTLET. MOUNT AT 300 AFFL U.N.O	WHITE	CLIPSAL C2000 SERIES	A
CAT 6A STP COMMUNICATIONS OUTLET (SM) SURFACE MOUNTED		RJ45 CAT-6A STP COMMUNICATIONS OUTLET MOUNTED ON A SURFACE MOUNTED MOUNTING BLOCK, CABLED BACK TO A CAT 6 PATCH PANEL IN COMMUNICATIONS RACK CR-12 VIA A BLUE 4-PAIR CAT-6A STP CABLE. MOUNT UP TO 3 RJ45 OUTLETS PER MULTI-GANG FACEPLATE WITH SEPARATE PERMANENT LABELLING FOR EACH OUTLET.	WHITE	CLIPSAL C2000 SERIES	B
CCTV POINT (C1)		CEILING MOUNTED RJ45 CAT-6 COMMUNICATIONS PLUG, CABLED BACK TO A DEDICATED CCTV CAT 6 PATCH PANEL IN COMMUNICATIONS RACK CR-12 VIA YELLOW 4-PAIR CAT-6 UTP CABLE. PROVIDE THE PLUG SUCH THAT IT PROTRUDES OUT 150MM FROM A FLUSH CONDUIT TO ALLOW THE CAMERA TO BE INSTALLED OVER THE CONDUIT WITH THE PLUG DIRECTLY CONNECTED INTO THE CONCEALED REAR OF THE CAMERA.			C
CCTV POINT (C2)		WALL MOUNTED RJ45 CAT-6 COMMUNICATIONS PLUG, CABLED BACK TO A DEDICATED CCTV CAT 6 PATCH PANEL IN COMMUNICATIONS RACK CR-12 VIA YELLOW 4-PAIR CAT-6 UTP CABLE. PROVIDE THE PLUG SUCH THAT IT PROTRUDES OUT 150MM FROM A FLUSH CONDUIT TO ALLOW THE CAMERA TO BE INSTALLED OVER THE CONDUIT WITH THE PLUG DIRECTLY CONNECTED INTO THE CONCEALED REAR OF THE CAMERA.			C
VAPE POINT		RJ45 CAT-6 COMMUNICATIONS PLUG, CABLED BACK TO A DEDICATED CCTV CAT 6 PATCH PANEL IN COMMUNICATIONS RACK CR-12 VIA PURPLE 4-PAIR CAT-6 UTP CABLE. PROVIDE THE PLUG SUCH THAT IT PROTRUDES OUT 150MM FROM A FLUSH CONDUIT TO ALLOW THE VAPE SENSOR TO BE INSTALLED OVER THE CONDUIT WITH THE PLUG DIRECTLY CONNECTED INTO THE CONCEALED REAR OF THE SENSOR.			B
ACCESS CONTROL ELECTRIC STRIKE (ES1)		CONNECT THE ELECTRIC STRIKE PROVIDED AS PART OF THE DOOR FRAME TO THE SECURITY EQUIPMENT WITH CONCEALED BELDEN 9536 060500 AND 1.5MM FIG 8 CABLES THAT ARE LESS THAN 25M IN LENGTH. THE CABLE IS TO BE LABELLED AT THE SECURITY EQUIPMENT END WITH THE DOOR NUMBER AND BE COILED IN THE CEILING SPACE ABOVE THE SECURITY EQUIPMENT WITH 4M OF SPARE CABLE LENGTH FOR CONNECTION TO THE SECURITY EQUIPMENT BY OTHERS.			C
ACCESS CONTROL ELECTRIC STRIKE (ES2)		CONNECT THE ELECTRIC STRIKE / POWER TRANSFER HING PROVIDED AS PART OF THE DOOR FRAME TO THE SECURITY EQUIPMENT WITH CONCEALED BELDEN 9536 060500 AND 1.5MM FIG 8 CABLES THAT ARE LESS THAN 25M IN LENGTH. THE CABLE IS TO BE LABELLED AT THE SECURITY EQUIPMENT END WITH THE DOOR NUMBER AND BE COILED IN THE CEILING SPACE ABOVE THE SECURITY EQUIPMENT WITH 4M OF SPARE CABLE LENGTH FOR CONNECTION TO THE SECURITY EQUIPMENT BY OTHERS.			C



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TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
ACCESS CONTROL CARD READER (CR)		PROVIDE A BELDEN 9536 060500 CABLE RUN CONCEALED FROM THE FUTURE WALL MOUNTED CARD READER POSITION AT 1000 AFFL TO THE SECURITY EQUIPMENT. THE CABLE IS TO BE LABELLED AT THE SECURITY EQUIPMENT END WITH THE DOOR NUMBER AND BE COILED IN THE CEILING SPACE ABOVE THE SECURITY EQUIPMENT WITH 4M OF SPARE CABLE LENGTH FOR CONNECTION TO THE SECURITY EQUIPMENT BY OTHERS. PROVIDE THE CABLE AT THE CARD READER POSITION SUCH THAT IT PROTRUDES OUT 150MM FROM A FLUSH CONDUIT IN THE WALL CENTRED AT 1000AFFL TO ALLOW THE CARD READER TO BE INSTALLED OVER THE CONDUIT WITH THE CABLE DIRECTLY CONNECTED INTO THE CONCEALED REAR OF THE CARD READER BY OTHERS.			C
INTRUDER DETECTOR SENSOR		PROVIDE A BELDEN 9536 060500 CABLE RUN CONCEALED FROM THE FUTURE CEILING MOUNTED SECURITY INTRUDER DETECTOR TO THE SECURITY EQUIPMENT. THE CABLE IS TO BE UNIQUELY LABELLED AT BOTH ENDS AND BE COILED IN THE CEILING SPACE ABOVE THE SECURITY EQUIPMENT WITH 4M OF SPARE CABLE LENGTH FOR CONNECTION TO THE SECURITY EQUIPMENT BY OTHERS. PROVIDE THE CABLE AT THE DETECTOR POSITION SUCH THAT IT PROTRUDES OUT 150MM FROM A FLUSH CONDUIT IN THE CEILING TO ALLOW THE DETECTOR TO BE INSTALLED OVER THE CONDUIT WITH THE CABLE DIRECTLY CONNECTED INTO THE CONCEALED REAR OF THE DETECTOR BY OTHERS.			B
REED SWITCH		PROVIDE A 1.5MM FIG 8 CABLE RUN CONCEALED FROM THE FUTURE CONCEALED DOOR HEAD SECURITY REED SWITCH TO THE SECURITY EQUIPMENT. THE CABLE IS TO BE UNIQUELY LABELLED AT BOTH ENDS AND BE COILED IN THE CEILING SPACE ABOVE THE SECURITY EQUIPMENT WITH 4M OF SPARE CABLE LENGTH FOR CONNECTION TO THE SECURITY EQUIPMENT BY OTHERS. PROVIDE THE CABLE AT THE REED SWITCH POSITION SUCH THAT IT PROTRUDES OUT 150MM FROM A FLUSH 20MM DIA CONDUIT IN THE DOOR HEAD TO ALLOW THE REED SWITCH TO BE INSTALLED OVER THE CONDUIT WITH THE CABLE DIRECTLY CONNECTED INTO THE CONCEALED REAR OF THE REED SWITCH BY OTHERS.			B
SECURITY PIEZO		PROVIDE A 1.5MM FIG 8 CABLE RUN CONCEALED FROM THE FUTURE CEILING MOUNTED SECURITY PIEZO SIREN TO THE SECURITY EQUIPMENT. THE CABLE IS TO BE UNIQUELY LABELLED AT BOTH ENDS AND BE COILED IN THE CEILING SPACE ABOVE THE SECURITY EQUIPMENT WITH 4M OF SPARE CABLE LENGTH FOR CONNECTION TO THE SECURITY EQUIPMENT BY OTHERS. PROVIDE THE CABLE AT THE SIREN POSITION SUCH THAT IT PROTRUDES OUT 150MM FROM A FLUSH CONDUIT IN THE CEILING TO ALLOW THE SIREN TO BE INSTALLED OVER THE CONDUIT WITH THE CABLE DIRECTLY CONNECTED INTO THE CONCEALED REAR OF THE SIREN BY OTHERS.			B
PA SYSTEM RECESSED SPEAKER		15W CEILING RECESSED MULTI TAP 100V 8 OHM PUBLIC ADDRESS DUAL CONE SPEAKER CABLED BACK TO THE ASSOCIATED AMPLIFIER WITHIN THE COMMUNICATIONS RACK VIA 1.5MM MARKED FIG 8 CABLE.	WHITE	AUSTRALIAN MONITOR QF8CS	B
PA SYSTEM SURFACE MOUNTED SPEAKER		15W RECESSED MULTI TAP 100V 8 OHM PUBLIC ADDRESS DUAL CONE SPEAKER MOUNTED INTO A SURFACE MOUNTED MOUNTING KIT CABLED BACK TO THE ASSOCIATED AMPLIFIER WITHIN THE COMMUNICATIONS RACK VIA 1.5MM MARKED FIG 8 CABLE.	WHITE	AUSTRALIAN MONITOR QF8CS PLUS SURFACE MOUNTING KIT	B
PA SYSTEM HORN		30W SURFACE MOUNTED ADJUSTABLE IP66 MULTI TAP 100V 8 OHM PUBLIC ADDRESS HORN SPEAKER CABLED BACK TO THE ASSOCIATED AMPLIFIER WITHIN THE COMMUNICATIONS RACK VIA 1.5MM MARKED FIG 8 CABLE.	WHITE	AUSTRALIAN MONITOR SH30	B



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PIT 1		EXISTING POWER PIT UNDER THE MAIN SWITCHBOARD TO REMAIN AS IS AND BE UTILISED TO ACCOMMODATE THE NEW SUBMAIN.			A
PIT 2		EXISTING POWER AND COMMUNICATIONS PITS TO REMAIN AS IS AND BE UTILISED TO ACCOMMODATE THE NEW SUBMAIN / FIBRE CABLE.			A
PIT 3		PROVIDE PIT 3 AS A 1200 X 1200 X 1000 DEEP MIN POWER PIT AND A 1200 X 1200 X 900 DEEP MIN COMMUNICATIONS PIT EACH WITH A CLASS C INFILL LID C/W PROPRIETARY PRECAST CONCRETE LID SURROUND, PRECAST OR PVC CONCRETE PIT AND RISERS AS REQUIRED. POLLY CRETE / FIBRE PITS ARE NOT ACCEPTABLE. ENSURE THE TOP OF THE PIT IS FLUSH WITH THE FINAL SURROUNDING LEVELS. STAMP / TAG THE COMMUNICATIONS PIT LID WITH THE WORD "COMMUNICATIONS" AND THE POWER PIT LID WITH THE WORD "ELECTRICITY" DRAIN THE PITS TO STORM WATER AND PROVIDE THE PIT WITH A WEEP HOLE IN THE BASE INTO A GRAVEL SOAKAGE PIT. PROVIDE DETAILS OF THE PITS AND LIDS FOR APPROVAL PRIOR TO ORDERING. PROVIDE A 150 WIDE X 150 DEEP MIN SURROUND AROUND THE TOP OF EACH PIT WITH A 10MM FALL AWAY FROM THE PIT LID. PROVIDE PHOTOS OF THE COMPLETED PITS INSTALLATION SHOWING ALL CONDUITS AND CABLING. MARK UP THE PHOTOS WITH THE SIZE AND DESTINATION OF EACH CONDUIT.			B
PIT 4		PROVIDE PIT 4 AS A 450 X 450 X 800 DEEP MIN POWER PIT AND A 450 X 450 X 600 DEEP MIN COMMUNICATIONS PIT EACH WITH A CLASS C INFILL LID C/W PROPRIETARY PRECAST CONCRETE LID SURROUND, PRECAST OR PVC CONCRETE PIT AND RISERS AS REQUIRED. POLLY CRETE / FIBRE PITS ARE NOT ACCEPTABLE. ENSURE THE TOP OF THE PIT IS FLUSH WITH THE FINAL SURROUNDING LEVELS. STAMP / TAG THE COMMUNICATIONS PIT LID WITH THE WORD "COMMUNICATIONS" AND THE POWER PIT LID WITH THE WORD "ELECTRICITY" DRAIN THE PITS TO STORM WATER AND PROVIDE THE PIT WITH A WEEP HOLE IN THE BASE INTO A GRAVEL SOAKAGE PIT. PROVIDE DETAILS OF THE PITS AND LIDS FOR APPROVAL PRIOR TO ORDERING. PROVIDE A 150 WIDE X 150 DEEP MIN SURROUND AROUND THE TOP OF EACH PIT WITH A 10MM FALL AWAY FROM THE PIT LID. PROVIDE PHOTOS OF THE COMPLETED PITS INSTALLATION SHOWING ALL CONDUITS AND CABLING. MARK UP THE PHOTOS WITH THE SIZE AND DESTINATION OF EACH CONDUIT.			B
CONDUIT C1		EXISTING POWER AND COMMUNICATIONS CONDUITS TO REMAIN AS IS AND BE UTILISED TO ACCOMMODATE THE NEW SUBMAINS / FIBRE CABLE.			A
CONDUIT C2		PROVIDE 6 X 100 DIA POWER CONDUITS UNDERGROUND FROM THE POWER PIT 2 TO POWER PIT 3 AND 4 X 50 DIA COMMUNICATIONS CONDUITS UNDERGROUND FROM THE COMMUNICATIONS PIT 2 TO THE COMMUNICATIONS PIT 3. POSITION THE POWER CONDUITS SUCH THAT THEY HAVE 50MM BETWEEN EACH CONDUIT. PROVIDE PHOTOS OF THE CONDUITS IN PLACE PARTIALLY COVERED BY BEDDING SAND PRIOR TO BACK FILLING FOR APPROVAL.			A
CONDUIT C3		PROVIDE 4 X 100 DIA POWER CONDUITS UNDERGROUND FROM THE POWER PIT 3 AND 4 X 50 DIA COMMUNICATIONS CONDUITS UNDERGROUND TO THE COMMUNICATIONS PIT 3 TO THE ELECTRICAL RISER. POSITION THE POWER CONDUITS SUCH THAT THEY HAVE 50MM BETWEEN EACH CONDUIT. PROVIDE PHOTOS OF THE CONDUITS IN PLACE PARTIALLY COVERED BY BEDDING SAND PRIOR TO BACK FILLING FOR APPROVAL.			B
CONDUIT C4		PROVIDE 2 X 100 DIA POWER CONDUITS UNDERGROUND FROM ELECTRICAL RISER TO POWER PIT 4 AND 2 X 50 DIA COMMUNICATIONS CONDUITS UNDERGROUND FROM THE ELECTRICAL RISER TO THE COMMUNICATIONS PIT 4. POSITION THE POWER CONDUITS SUCH THAT THEY HAVE 50MM BETWEEN EACH CONDUIT. PROVIDE PHOTOS OF THE CONDUITS IN PLACE PARTIALLY COVERED BY BEDDING SAND PRIOR TO BACK FILLING FOR APPROVAL.			B
FIRE INDICATOR PANEL (FIP)		AS 1670 COMPLAINT FIRE INDICATOR PANEL INCORPORATING THE EWCIE AND FDCIE THE FIP IS TO BE THE SAME BRAND AS THAT USED IN THE ADJACENT CHA10 BUILDING.			B



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FIRE EVACUATION HORN		SURFACE MOUNTED TWO-TONE 30W ALERT AND EVACUATION HORN SPEAKER TO AS1670.1 C/W 100V MULTI-TAP TRANSFORMER. MOUNT AT HIGH LEVEL.			A
FIRE EVACUATION RECESSED SPEAKER		RECESSED 5W TWO-TONE 8-INCH CONE ALERT AND EVACUATION SPEAKER TO AS1670.1 C/W 100V MULTI-TAP TRANSFORMER AND FLUSH GRILLE PAINTED OUT TO MATCH THE CEILING.			A
FIRE EVACUATION SURFACE SPEAKER		SURFACE MOUNT 5W TWO-TONE 8-INCH CONE ALERT AND EVACUATION SPEAKER TO AS1670.1 C/W 100V MULTI-TAP TRANSFORMER AND GRILLE PAINTED OUT TO MATCH THE CEILING.			A
SMOKE DETECTOR		SURFACE MOUNTED WHITE AS7240.7 POINT SMOKE DETECTORS WITH A PERFORMANCE OF 6 TO 12 % OBS/M SET AT 7.8 %.			A
CONCEALED SPACE SMOKE DETECTOR		CONCEALED SPACE ADDRESSABLE AS7240.7 POINT SMOKE DETECTORS WITH A PERFORMANCE OF 6 TO 12 % OBS/M SET AT 7.8 %. PROVIDE THE DETECTOR WITH A WHITE REMOTE INDICATOR AND ACCESS BRACKET AS REQUIRED.			A
THERMAL DETECTOR		SURFACE MOUNTED WHITE AS7240.5:2018 TYPE B SEALED FIXED TEMPERATURE ADDRESSABLE THERMAL DETECTOR WHITE.			A
FIRE ALARM STROBE		WALL MOUNTED FIRE ALARM STROBE LIGHT AS PER AS1670.1			A
PV SYSTEM INVERTER (INV)		PROVIDE A SUNGROW SC110CX-P2 INVERTER CONTROLLED BY THE SITES EXISTING GRID PROTECTION SYSTEM. PROVIDE THE INVERTER WITH INTERNET ACCESS VIA THE SCHOOLS IT NETWORK.			B
PV SOLAR PANELS		PROVIDE THE PV PANELS AS TRINA TSM-510NE18R.28 9510W) PANELS			B
TEMPERATURE CONTROLLED EXHAUST FAN (TEF)		PROVIDE A TEMPERATURE CONTROLLED EXHAUST FAN WITHIN THE CEILING OF THE ELECTRICAL CUPBOARD TO EXHAUST THE CUPBOARD INTO THE CEILING SPACE. THE FAN IS TO BE RATED FOR 100,000 HOURS OF USE, EXHAUST AT LEAST 100L PER SECOND, BE CONNECTED BY A FLEX AND PLUG, BE VARIABLE SPEED DEPENDANT UPON THE TEMPERATURE AND CONFIGURED TO COMMENCE OPERATION WHEN THE CUPBOARD TEMPERATURE REACHES 25 DEG. ENSURE THE FAN CAN NOT BE HEARD FROM A POSITION 2M IN FRONT OF THE CUPBOARD. PROVIDE DETAILS OF THE FAN FOR APPROVAL PRIOR TO ORDERING.			B