

PROJECT

WESTERN CAPE RESIDENTIAL CAMPUS

ELECTRICAL SERVICES

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LEGEND

LUMINAIRES

n = INDICATES THE LIGHT FITTING REFERENCE NUMBER FOR CROSS REFERENCE WITH THE LIGHTING SCHEDULE

	SURFACE MOUNTED/SUSPENDED, SINGLE LAMP FLUORESCENT
	SURFACE MOUNTED/SUSPENDED, TWIN LAMP FLUORESCENT
	RECESSED FLUORESCENT
	LOW BAY TYPE LUMINAIRE
	RECESSED DOWNLIGHT OR SURFACE AS NOTED
	FLOOD LIGHT
	WALL LIGHT
	LED STRIP LIGHT
	SURFACE MOUNTED LIGHTING TRACK
	LAMP POST
	ILLUMINATED BOLLARD
	SELF CONTAINED NON-MAINTAINED EMERGENCY LIGHT
	ILLUMINATED MAINTAINED EMERGENCY EXIT SIGN COMPLETE WITH RUNNING MAN LEGEND
	COMBINED GENERAL LIGHT AND EMERGENCY LIGHT
	COMBINED GENERAL LIGHT AND EMERGENCY LIGHT

LIGHTING/SWITCHING CONTROL

	ONE WAY, SINGLE POLE MOUNTED AT 1100 AFL UNO
	ONE WAY, SINGLE POLE MOUNTED AT 1100 AFL UNO, SURFACE HIGH IMPACT
	ONE WAY, SINGLE POLE MOUNTED AT 1100 AFL UNO, LARGE ROCKER TYPE
	ONE WAY, SINGLE POLE MOUNTED AT 1100 AFL UNO, C/W NEON INDICATOR
	TWO WAY SWITCH
	DIMMER SWITCH - DIMMER TO BE SUITABLE FOR DIMMING CONNECTED LIGHTS
	ONE WAY DELAY TIME SWITCH - TIMER TO BE ADJUSTABLE FROM 5 TO 30 MINUTES
	TWO WAY DELAY TIME SWITCH - TIMER TO BE ADJUSTABLE FROM 5 TO 30 MINUTES
	C-BUS SWITCH
	FAN CONTROL AS APPROPRIATE MOUNTED AT 1100 AFL UNO
	C-BUS COLOUR TOUCH SCREEN CONTROLLER, INCORPORATING A LOGIC ENGINE
	C-BUS PHOTO CELL CONTROLLER
	PIR MOVEMENT DETECTOR - 240V SWITCH
	PIR MOVEMENT DETECTOR - C-BUS SWITCH
	SWITCHING SHOWN CONNECTED
	SWITCHING SHOWN UNCONNECTED
	SWITCHING ARROW

ACCESS CONTROL

	ELECTRICALLY OPERATED DOOR LOCK, INCLUDING DOOR MONITOR AND OPEN TO LONG ALARM EML = ELECTRIC MORTICE LOCK ES = ELECTRIC STRIKE LOCK
	BREAK GLASS EMERGENCY DOOR UNLOCK
	REMOTE DOOR UNLOCK PUSH BUTTON n = NUMBER OF BUTTON IN THE LOCATION
	DOOR CONTROLLER
	DATA GATHERING PANEL
	INFRARED MULTI BEAM SECURITY DETECTOR
	CONCEALED DOOR REED SWITCH

CLOSED CIRCUIT TELEVISION

	CCTV CONTROLLER REFER SCHEMATICS FOR DETAILS
	CCTV MONITOR INCLUDING WALL MOUNTING BRACKET OR RACK MOUNTING BRACKET AS APPROPRIATE
	CLOSED CIRCUIT TELEVISION (CCTV) CAMERA FIXED POSITION n = CAMERA REFERENCE
	CLOSED CIRCUIT TELEVISION (CCTV) CAMERA MOUNTED ON A 4m STEEL POLE
	INDICATES NOMINAL FIELD OF VIEW FOR CAMERAS

FIRE ALARM AND BOWS

	FIRE INDICATOR AND BOWS CONTROL PANEL
	FIRE INDICATOR MIMIC PANEL
	SMOKE DETECTOR EXPOSED
	SMOKE DETECTOR WITHIN A CONCEALED SPACE WITH REMOTE INDICATORS
	REMOTE INDICATOR
	TEMPERATURE SENSOR EXPOSED
	MANUAL BREAK GLASS CALL POINT
	SMOKE DETECTOR WITH SOUNDER IN BASE FOR USE IN CONJUNCTION WITH THE ALARM ACKNOWLEDGMENT UNIT
	ALARM ACKNOWLEDGMENT DEVICE
	RECESSED 100mm DIA BOWS SPEAKER - WHITE
	WALL MOUNTED RECESSED BOWS SPEAKER - WHITE
	EXTERNAL SOUNDER/VISUAL INDICATOR
	DUCT SENSOR
	TRANSMITTER FOR HAND HELD PILLOW VIBRATOR
	VISUAL INDICATOR

POWER

	SINGLE SWITCHED SOCKET OUTLET (GPO) MOUNTED AT 300 AFL UNO
	DOUBLE SWITCHED SOCKET OUTLET (DGPO) MOUNTED AT 300 AFL UNO NORMAL CIRCUITS TO HAVE WHITE FACE PLATES ESSENTIAL CIRCUITS TO HAVE GREEN FACE PLATES
	15A SINGLE SWITCHED SOCKET OUTLET (GPO) MOUNTED AT 300 AFL UNO
	SURFACE MOUNTED HIGH IMPACT DOUBLE SWITCHED SOCKET OUTLET, FLUSH WEATHERPROOF, CLIPSAL IPS3
	PENDANT 15A SINGLE SWITCHED SOCKET OUTLET
	IP 56 ON-LOAD ISOLATOR C/W PROVISION TO LOCK IN OPEN POSITION x - NUMBER OF PHASES (IF BLANK 1 PHASE) Y - CURRENT RATING (IF BLANK 20 AMP)
	DIRECT CONNECTION
	IP56 THREE PHASE SWITCHED SOCKET OUTLET C/W PLUG x - SIZE IN AMPS (IF BLANK 20A)
	IP56 THREE PHASE SWITCHED SOCKET OUTLET C/W PLUG C/W INTEGRAL 30mA RCD TRIP x - SIZE IN AMPS (IF BLANK 20A)
	SWITCHBOARD
	CONTROL PANEL BY OTHERS, PROVIDE POWER SUPPLY
	2 COMPARTMENT CABLE DUCTING AS MODULINE TS0150 50mm x 150mm C/W ALL ACCESSORIES. ALL CORNERS TO HAVE CAT6 CABLE PROTECTORS. CABLE DUCTING TO BE SKIRTING MOUNTED UNO STANDARD COLOUR TO ARCHITECTS APPROVAL

	INDICATES OUTLETS MOUNTED ON CABLE DUCTING UNO
	DENOTES 25mm POWER AND 25mm COMMUNICATIONS CONDUITS TO DROP FROM CEILING VOID TO SKIRTING DUCTING. PROVIDE NUMBER AS REQUIRED PLUS 1x25mm SPARE POWER AND 2x25mm SPARE COMMUNICATIONS - CONDUITS TO BE CONCEALED WITHIN THE WALL FABRIC
	RECESSED WHITE 20 AMP ISOLATION SWITCH FOR WALL MOUNTED AC UNITS
	RECESSED FLOOR BOX AS ECD FFB0 148 COMPLETE WITH STAINLESS STEEL, FLOOR BOX TO CONTAIN ITEMS NOTED, EXAMPLE 1No DGPO AND 1 No DOUBLE DATA
	RECESSED FLOOR BOX AS ECD FFB0 COMPLETE WITH ROUND PLASTIC RECESSED LID TO ACCEPT CARPET, FLOOR BOX TO CONTAIN ITEMS NOTED, EXAMPLE 1No DGPO AND 1No DOUBLE DATA
	RECESSED FLOOR BOX AS ECD FFB0128 COMPLETE 2No SGPO, FLOOR BOX TO BE INSTALLED IN ISLAND COUNTER TOP

PUBLIC ADDRESS

	FLUSH WHITE CEILING PA SPEAKER n = AUDIO ZONE
	WEATHERPROOF EXTERNAL BOX SPEAKER n = AUDIO ZONE
	DESK MICROPHONE
	PUBLIC ADDRESS SYSTEM HEAD END
	PA SYSTEM LOCAL WALL CONTROLLER
	CLASS CHANGE/EVACUATE/LOCKDOWN WALL SWITCH

INTERCOM SYSTEM

	INTERCOM MASTER STATION
	INTERCOM SLAVE STATION

DATA-TELEPHONE

	ENCLOSED TELEPHONE KRONE PUNCHDOWN FRAME
	CENTER OF NETWORK COMMUNICATIONS RACK
	LOCATION OF COMMUNICATIONS RACK
	TELEPHONE - MAIN DISTRIBUTION FRAME
	TELEPHONE - INTERMEDIATE DISTRIBUTION FRAME SIZED TO SUIT INCOMING CABLES PLUS 100% SPARE WAYS
	DATA - CAT6 CONSOLIDATION POINT, SIZED TO SUIT INCOMING CABLES PLUS 100% SPARE WAYS
	AUTOMATIC TELEPHONE EXCHANGE BY OTHERS - PROVIDE A POWER SUPPLY
	CAT 6 SINGLE DATA/VOICE OUTLET RJ45
	CAT 6 TWIN DATA/VOICE OUTLET RJ45
	CAT 6 SINGLE DATA/VOICE OUTLET RJ45 CONNECTED TO THE VOICE BACKBONE

AV-MATV

	SHORT THROW PROJECTOR, PROJECTOR BY OTHERS, PROVIDE SUITABLE BRACKET
	MASTER ANTENNA TELEVISION SYSTEM HEAD END
	MASTER ANTENNA TELEVISION SYSTEM MAIN SPLITTER POINT
	MATV OUTLET MOUNTED AT 300 AFL UNO
	AUSTAR OUTLET MOUNTED AT 300 AFL UNO
	VGA, AUDIO, VIDEO AND S VIDEO SOCKET INPUTS CEILING MOUNTED
	VGA, AUDIO, VIDEO AND S VIDEO SOCKET OUTPUTS WALL MOUNTED 500 AFL UNO
	SPEAKER SOCKET OUTPUTS WALL MOUNTED 150 BELOW CEILING UNO
	USB WALL SOCKET - ALWAYS IN PAIRS
	SURROUND SOUND SYSTEM WALL SOCKET
	SURROUND SOUND FLUSH CEILING SPEAKER

SITE SERVICES

	EARTH PIT AND 40mm CONDUIT TO LOCAL SWITCHBOARD, ACO CABLEMATE PEP22 LID TO BE MARKED 'EARTH CONNECTION'
	UNDERGROUND POWER CONDUIT - HEAVY DUTY ORANGE x - DENOTES NUMBER OF CONDUITS y - DENOTES SIZE OF CONDUIT
	UNDERGROUND COMMUNICATION CONDUIT x - DENOTES NUMBER OF CONDUITS y - DENOTES SIZE OF CONDUIT
	LINE OF UNDERGROUND TELSTRA CONDUIT 100 DIA TO TELSTRA REQUIREMENTS
	CONDUIT CAPPED OFF AND MARKED FOR FUTURE USE
	TELSTRA PIT ON ROAD RESERVE
	TELSTRA PIT - TO TELSTRA REQUIREMENTS, LID TO BE MARKED 'TELSTRA' ALIGNED TO SUPERINTENDENTS APPROVAL
	COMMUNICATIONS PIT, (705x450x635) ACO CABLEMATE TYPE 5 PLASTIC PIT C/W COMPLETE WITH GALVANISED STEEL LID AND CONCRETE SURROUND AND FRAME TO CLASS B 80kn, LID TO BE MARKED 'COMMUNICATIONS', ALIGNED TO SUPERINTENDENTS APPROVAL, LIDS TO HAVE LOCKS
	COMMUNICATIONS PIT, (1030x570x1130) ACO CABLEMATE TYPE 7 PLASTIC PIT C/W COMPLETE WITH A TWO PART GALVANISED STEEL LID AND CONCRETE SURROUND AND FRAME TO CLASS B 80kn, LID TO BE MARKED 'COMMUNICATIONS', ALIGNED TO SUPERINTENDENTS APPROVAL, LIDS TO HAVE LOCKS
	POWER PIT - ACO CABLEMATE TYPE 99 + EXTENSION PIT COMPLETE WITH GALVANISED STEEL LID AND CONCRETE SURROUND AND FRAME TO CLASS B 80kn, LIDS TO HAVE LOCKS
	POWER PIT - (667x667x915) ACO CABLEMATE TYPE 66H PIT COMPLETE WITH GALVANISED STEEL LID AND CONCRETE SURROUND AND FRAME TO CLASS B 80kn, LIDS TO HAVE LOCKS

MISCELLANEOUS

	CEILING FAN 900mm DIA - WHITE, 3 ALUMINIUM BLADES WITH RAKED CEILING ACCESSORY KITS AS REQUIRED, DROP RODS TO BE PROVIDED TO LOWER FAN BLADES TO 2350mm UNO, FINAL HEIGHT TO BE CONFIRMED, AS CLIPSAL AIRFLOW
	CEILING FAN 1200mm DIA - WHITE, 3 ALUMINIUM BLADES WITH RAKED CEILING ACCESSORY KITS AS REQUIRED, DROP RODS TO BE PROVIDED TO LOWER FAN BLADES TO 2350mm UNO, FINAL HEIGHT TO BE CONFIRMED, AS CLIPSAL AIRFLOW
	CEILING FAN 1320mm DIA - WHITE, 4 PLASTIC BLADES WITH RAKED CEILING ACCESSORY KITS AS REQUIRED, DROP RODS TO BE PROVIDED TO LOWER FAN BLADES TO 2350mm UNO, FINAL HEIGHT TO BE CONFIRMED, AS HUNTER PACIFIC - CONCEPT 2 - COLOUR TO APPROVAL
	NOMINAL LOCATION OF ACCESS PANEL, CONFIRM ACTUAL LOCATION WITH ARCHITECTURAL DRAWINGS
	LOCATION OF EXTRACT FAN BY MECHANICAL CONTRACTOR, PROVIDE LOCAL ISOLATOR
	GENERATOR LOAD INDICATOR, TO BE WALL MOUNTED IN KITCHEN TO INDICATE - GENERATOR RUNNING, GENERATOR LOAD 80%, GENERATOR LOAD 100%

SWITCHBOARD REFERENCES

	SWITCHBOARD REFERENCE
	SWITCHBOARD TYPE
	SB = MAIN OR SUB MAIN BOARD DB = FINAL CIRCUIT BOARD

CIRCUIT REFERENCES

	CIRCUIT REFERENCE
	SWITCHBOARD REFERENCE

C-BUS REFERENCES

	CHANNEL REFERENCE
	SWITCHBOARD REFERENCE
	INDICATE C-BUS

IDENTIFICATION OF OUTLETS

AB	ABOVE BENCH
AFL	ABOVE FLOOR LEVEL
BWU	BOILING WATER UNIT
C	CLEANERS
CM	CEILING MOUNTED
CT	COOK TOP
DRY	DRYER
F	REFRIGERATOR
HWS	HOT WATER SERVICE
IC	IN CEILING VOID
UB	UNDER BENCH
WM	WALL MOUNTED
WP	WEATHER PROTECTED (IP56)
ST	STOVE
RH	RANGE HOOD
UNO	UNLESS NOTED OTHERWISE
WP	WEATHERPROOF
WAP	WIRELESS ACCESS POINT

TENDER

DATE	REV	AMENDMENT	BY	CHKD
8.2.11	1	TENDER ISSUE		

NOTES

- ALL FLUORESCENT LAMPS SHALL BE TRIPHOSPHOR 4000°K FOR TENDER PURPOSES AND APPROVED BY THE SUPERINTENDENT PRIOR TO ORDER
- ALL COMPACT FLUORESCENT LAMPS SHALL BE 2700°K FOR TENDER PURPOSES AND APPROVED BY THE SUPERINTENDENT PRIOR TO ORDER
- ALL LED LAMPS SHALL BE WARM WHITE TENDER PURPOSES AND APPROVED BY THE SUPERINTENDENT PRIOR TO ORDER
- ALL DISCHARGE LAMPS UNLESS OTHERWISE INDICATED SHALL BE 3000°K FOR TENDER PURPOSES, CONFIRM COLOUR TEMP PRIOR TO ORDERING.
- UNLESS OTHERWISE INDICATED THE COLOUR FINISH OF ALL LUMINAIRES MUST BE SELECTED AND APPROVED BY THE SUPERINTENDENT PRIOR TO MANUFACTURE.
- WHERE MORE THAN 6 SWITCHES ARE LOCATED TOGETHER PROVIDE A FLUSH STAINLESS STEEL PLATE SIZE TO SUIT THE NUMBER OF SWITCHES
- POWER SUPPLIES TO MECHANICAL AND HYDRAULIC EQUIPMENT IS FOR TENDER PURPOSES ONLY CONFIRM WITH MECHANICAL AND HYDRAULIC CONTRACTORS THE ACTUAL REQUIREMENTS BEFORE COMMENCEMENT OF THE INSTALLATION, ADVISE THE SUPERINTENDENT OF ANY CHANGES REQUIRED

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PROJECT
WESTERN CAPE RESIDENTIAL CAMPUS WEIPA
CLIENT
INDIGENOUS LAND CORPORATION

DATE	JULY 10	DRAWN	
SCALE	NTS	CHECKED	
SHEET SIZE	A1	APPROVED	
CAD FILE	P:\10011\Electrical\3278-T-EL-0101.dwg		

TITLE
ELECTRICAL SERVICES LEGEND AND SCHEDULES

PROJECT NO.	PHASE	DISCIPLINE	DRAWING NO.	REVISION
3278 T	EL	0101		