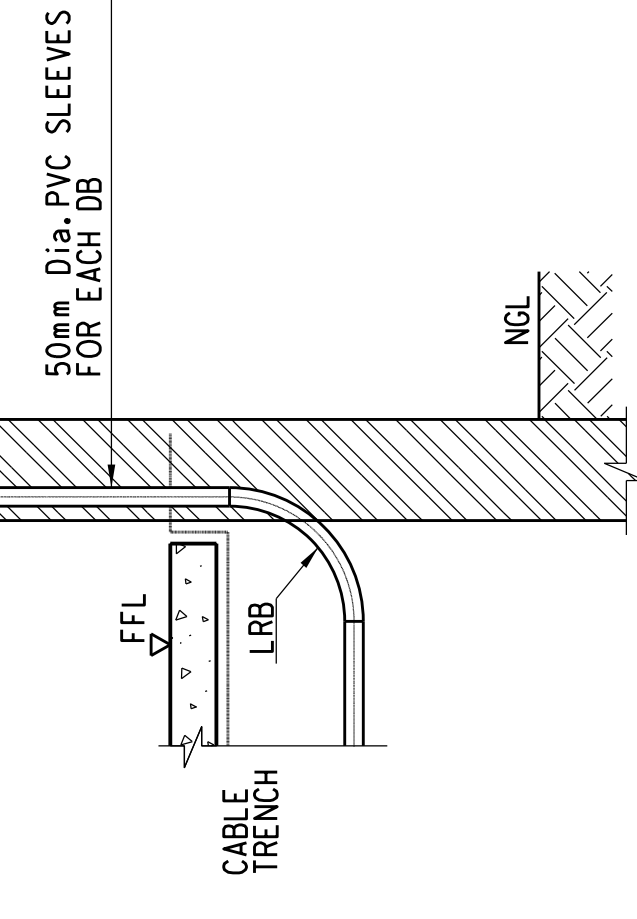
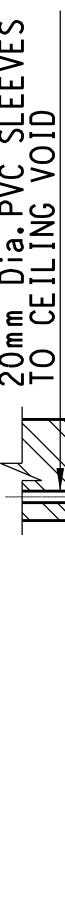
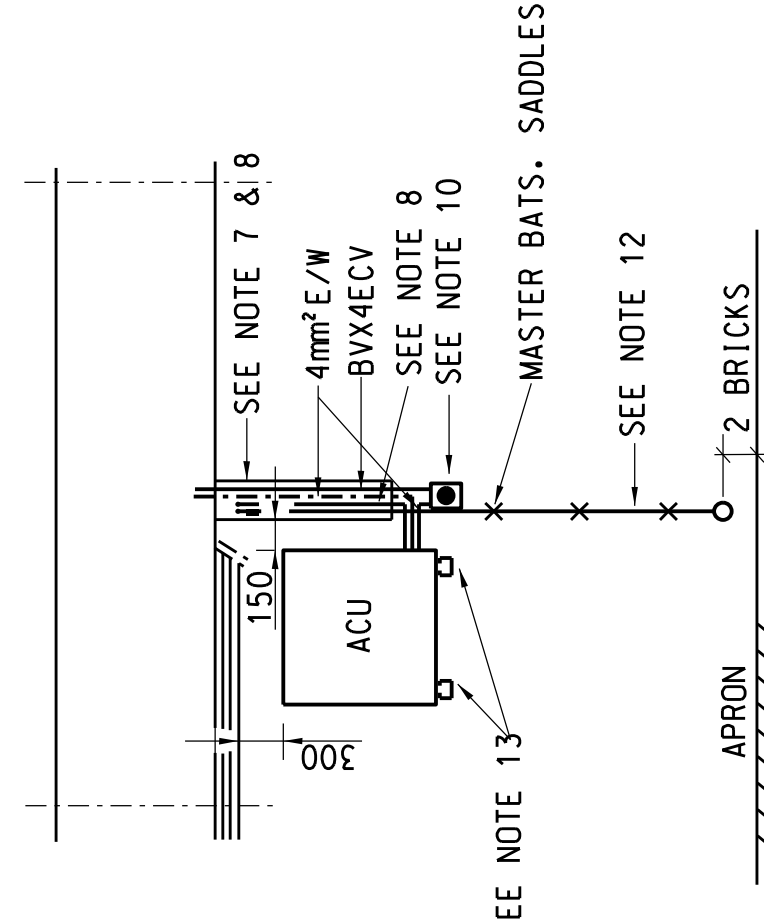


ELLU & WCB'S	CONDUCTOR SIZE $\text{mm}^2$		CIRC No	LABEL	POINT No	LOAD
		CONDUIT SIZE $\text{mm}$				
CONN=30910W EST=22256W						



## ELECTRICAL CABLE ENTRY DETAIL



## TYPICAL FRONT VIEW OF ACU'S 1-3

N.T.S

- NOTES:**
1. ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH:
    - 1.1. SANS 1042
    - 1.2. MODEL PREABLES FOR TRADES SECTION 'S' ELECTRICAL WORK.
    - 1.3. SANS 1018
  2. ALL WIRING SHALL BE INSTALLED WITHIN 20 DIAMETER PVC CONDUIT
  3. ALL SOCKET OUTLETS SHALL BE 1350 AF.FL
  4. ALL LUMINAIRES PLAN REF. 'A' SHALL BE SURFACE MOUNTED TO CEILING.
  5. ALL MANUFACTURER'S DRAWINGS & FACTORY INSPECTIONS:-
    - a. DRAWINGS OF BOARDS SHOWING THE VIEW WITH SECTION & EQUIPMENT ARRANGEMENT WITH TYPE, RATING, LABELS & GLAND PLATES SHALL BE SENT FOR APPROVAL BEFORE COMMENCEMENT OF MANUFACTURING ON THREE PHASE BOARDS
    - b. THE BOARD SHALL BE ARRANGED IN 3 ROWS (ONE ROW PER PHASE) WITH A SEGREGATION OF CIRCUITS SUPPLIED FROM SECTION CRYSTALL
  - 6.2. LABELLING (GENUINE WAREHUSE) FOR THE LABELLING UNDER THE DEVICES SHALL BE PROVIDED, THE LEGEND CARD SHALL BE  
a. SUPPLIED WITH THE BOARD WITH SUITABLE POCKETS ON THE INSIDE OF THE DOOR  
b. FOR INFORMATION ON THE LEGEND CARD SEE DETAIL 'A'  
c. THE DEVICES SHALL ALSO BE DRAWN ON THE MANUFACTURER'S DRAWING
  - 6.3. ALL THE LOCKS OF THE MANGERS DRAWING SHALL BE  
a. THE DISTRIBUTION BOARDS SHALL BE INSPECTED BEFORE SHIPMENT  
b. AN APPLICATION FOR THE INSPECTION SHALL BE SENT TO THE PROJECT MANAGER  
c. POWER, CONTROL CABLES AND REFRIGERANT PIPES ON OUTSIDE WALLS SHALL BE INSTALLED IN TRUNKING WITH COVERS  
d. TRUNKING SHALL BE FABRICATED FROM 1mm SHEET STEEL MEASURING 1274x162 WITH CLIP-ON COVER, CORROSION PROTECTION  
e. HOT-DIPPED GALVANISED TO SANS 1763, EXPOSED SURFACES ON OUTSIDE WALL SHALL BE EPOXY-POWER COATING
  - 6.4. FACTORY INSPECTIONS:
    - a. HOT-CONTROL CABLES FROM REMOTE CONTROL SYSTEMS TO HANDLING UNIT SHALL BE SURFACE MOUNTED WITHIN WHITE MINT TRUNKING ON WALL
    - b. LIGHT DUTY CABLE TRAYS SHALL BE INSTALLED IN ROOF VOID WITH OVERALL WIDTH 500mm FOR CABLES & EARTH WIRE RUNNING
    - c. HANDLING UNIT SHALL BE POLY COP WITH SUITABLE CONNECTOR TYPE JG-SPEEDFIT OR CONEXA, BETWEEN POLY COP AND HANDLING UNIT
    - d. HANDLING UNIT SHALL BE POLY COP WITH SUITABLE CONNECTOR TYPE JG-SPEEDFIT OR CONEXA, BETWEEN POLY COP AND HANDLING UNIT
    - e. HANDLING UNIT SHALL BE POLY COP WITH SUITABLE CONNECTOR TYPE JG-SPEEDFIT OR CONEXA, BETWEEN POLY COP AND HANDLING UNIT
    - f. HANDLING UNIT SHALL BE POLY COP WITH SUITABLE CONNECTOR TYPE JG-SPEEDFIT OR CONEXA, BETWEEN POLY COP AND HANDLING UNIT
    - g. HANDLING UNIT SHALL BE POLY COP WITH SUITABLE CONNECTOR TYPE JG-SPEEDFIT OR CONEXA, BETWEEN POLY COP AND HANDLING UNIT
    - h. HANDLING UNIT SHALL BE POLY COP WITH SUITABLE CONNECTOR TYPE JG-SPEEDFIT OR CONEXA, BETWEEN POLY COP AND HANDLING UNIT
    - i. HANDLING UNIT SHALL BE POLY COP WITH SUITABLE CONNECTOR TYPE JG-SPEEDFIT OR CONEXA, BETWEEN POLY COP AND HANDLING UNIT
    - j. HANDLING UNIT SHALL BE POLY COP WITH SUITABLE CONNECTOR TYPE JG-SPEEDFIT OR CONEXA, BETWEEN POLY COP AND HANDLING UNIT
    - k. HANDLING UNIT SHALL BE POLY COP WITH SUITABLE CONNECTOR TYPE JG-SPEEDFIT OR CONEXA, BETWEEN POLY COP AND HANDLING UNIT
    - l. HANDLING UNIT SHALL BE POLY COP WITH SUITABLE CONNECTOR TYPE JG-SPEEDFIT OR CONEXA, BETWEEN POLY COP AND HANDLING UNIT
    - m. HANDLING UNIT SHALL BE POLY COP WITH SUITABLE CONNECTOR TYPE JG-SPEEDFIT OR CONEXA, BETWEEN POLY COP AND HANDLING UNIT
    - n. HANDLING UNIT SHALL BE POLY COP WITH SUITABLE CONNECTOR TYPE JG-SPEEDFIT OR CONEXA, BETWEEN POLY COP AND HANDLING UNIT
    - o. HANDLING UNIT SHALL BE POLY COP WITH SUITABLE CONNECTOR TYPE JG-SPEEDFIT OR CONEXA, BETWEEN POLY COP AND HANDLING UNIT
    - p. HANDLING UNIT SHALL BE POLY COP WITH SUITABLE CONNECTOR TYPE JG-SPEEDFIT OR CONEXA, BETWEEN POLY COP AND HANDLING UNIT
    - q. HANDLING UNIT SHALL BE POLY COP WITH SUITABLE CONNECTOR TYPE JG-SPEEDFIT OR CONEXA, BETWEEN POLY COP AND HANDLING UNIT
    - r. HANDLING UNIT SHALL BE POLY COP WITH SUITABLE CONNECTOR TYPE JG-SPEEDFIT OR CONEXA, BETWEEN POLY COP AND HANDLING UNIT
    - s. HANDLING UNIT SHALL BE POLY COP WITH SUITABLE CONNECTOR TYPE JG-SPEEDFIT OR CONEXA, BETWEEN POLY COP AND HANDLING UNIT
    - t. HANDLING UNIT SHALL BE POLY COP WITH SUITABLE CONNECTOR TYPE JG-SPEEDFIT OR CONEXA, BETWEEN POLY COP AND HANDLING UNIT
    - u. HANDLING UNIT SHALL BE POLY COP WITH SUITABLE CONNECTOR TYPE JG-SPEEDFIT OR CONEXA, BETWEEN POLY COP AND HANDLING UNIT
    - v. HANDLING UNIT SHALL BE POLY COP WITH SUITABLE CONNECTOR TYPE JG-SPEEDFIT OR CONEXA, BETWEEN POLY COP AND HANDLING UNIT
    - w. HANDLING UNIT SHALL BE POLY COP WITH SUITABLE CONNECTOR TYPE JG-SPEEDFIT OR CONEXA, BETWEEN POLY COP AND HANDLING UNIT
    - x. HANDLING UNIT SHALL BE POLY COP WITH SUITABLE CONNECTOR TYPE JG-SPEEDFIT OR CONEXA, BETWEEN POLY COP AND HANDLING UNIT
    - y. HANDLING UNIT SHALL BE POLY COP WITH SUITABLE CONNECTOR TYPE JG-SPEEDFIT OR CONEXA, BETWEEN POLY COP AND HANDLING UNIT
    - z. HANDLING UNIT SHALL BE POLY COP WITH SUITABLE CONNECTOR TYPE JG-SPEEDFIT OR CONEXA, BETWEEN POLY COP AND HANDLING UNIT
  13. MOUNTING BRACKETS FOR OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  14. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  15. ALL OUTDOOR WEATHER PROOF(WP) SWITCHES SHALL BE IP65.
  16. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  17. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  18. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  19. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  20. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  21. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  22. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  23. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  24. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  25. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  26. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  27. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  28. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  29. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  30. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  31. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  32. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  33. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  34. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  35. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  36. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  37. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  38. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  39. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  40. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  41. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  42. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  43. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  44. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  45. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  46. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  47. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  48. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  49. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  50. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  51. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  52. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  53. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  54. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  55. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  56. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  57. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  58. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  59. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  60. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  61. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  62. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  63. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  64. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  65. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  66. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  67. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  68. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  69. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  70. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  71. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  72. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  73. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  74. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  75. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  76. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  77. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  78. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  79. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  80. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  81. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  82. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  83. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  84. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  85. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  86. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  87. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  88. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  89. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  90. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  91. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  92. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  93. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  94. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  95. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  96. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  97. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  98. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD
  99. ALL AIR CONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS
  100. OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CAD

## SCHEDULE OF LUMINAIRES WITH LAMPS, & OTHER ELECTRICAL EQUIPMENT

PLAN REF	DESCRIPTION	SUPPLIERS	CAT NO
A	SURFACE LED LUMINAIRE, COLOUR TEMP. 4000K, END CAPS TO BE INCLUDED, BODY COLOUR: WHITE.	WETLINE LIGHTING	RAIL-37W-LED
B	CEILING HIGH PERFORMANCE LUMINAIRE, WITH WALL MOUNTED BRACKET.	GENCO LIGHTING	GEN 1
C	HIGH PERFORMANCE LUMINAIRE, HOUSING GRP FIBRE GLASS REINFORCED POLYESTER, WITH EPOXY COATED POWDER GREY, COLOUR TEMP. 4000K.	MORDAD LIGHTING	NEED-EX-95W
<u>2A</u>	246A.3 PIN 250V INDUSTRIAL SURFACE TYPE SOCKET OUTLET IN BOX 83111950	GRABTREE OR EQUAL	
<u>6</u>	16A. 250V ONE LEVER ONE WAY SURFACE LIGHT SWITCH IN BOX 7547548	GRABTREE OR EQUAL	

### AIR CONDITIONING UNITS AND FAN SCHEDULE:

PLAN REF	DESCRIPTION	COOLING CAPACITY	SUPPLIER	A/C UNIT
ACU/ANH 1 TO 3	INVERTER UNDER CEILING SPLIT TYPE, WITH HEATING COOLING AND DRYER, VOLTAGE 110V AC, 3 PHASE.	10.7KW	CARRIER	42QZL03DSDS 38QUS0360T
FAN 1	WALL MOUNTED EXTRACTOR FAN EXPLOSION PROOF 6 AIR CHANGES PER HOUR.		LUFT FANS	FAN FAN232/J POWER-SPLITTER GRM350

[illegible]

## MAINTENANCE WORKSHOP LIGHTING AND ELECTRICAL