

| GRILLE AND DIFFUSER SCHEDULE | | | | | |
|------------------------------|---|-----------|----------------|----------------|--|
| DESIG | TYPE | SIZE (mm) | CAPACITY (l/s) | NECK SIZE (mm) | REMARKS |
| S-1 | DOUBLE DEFLECTION GRILLE FOR CURVED SPIRAL DUCT | 760x100 | AS SHOWN | — | STEEL 19mm BLADE SPACING, c/w BALANCING SCOOP, MOUNTING TO SUIT SPIRAL DUCT, COLOR: BY ARCHITECT |
| S-2 | DOUBLE DEFLECTION | 300x200 | AS SHOWN | — | STEEL 19mm BLADE SPACING, c/w BALANCING SCOOP, MOUNTING TO SUIT SPIRAL DUCT, COLOR: BY ARCHITECT |
| S-3 | SQUARE CEILING PLAQUE DIFFUSER | 600x600 | 40-90 | 150 | PAINTED STEEL, MOUNTING TO SUIT T-BAR LAY-IN, COLOR: WHITE |
| | | | 91-115 | 200 | |
| | | | 116-180 | 250 | |
| S-4 | DOUBLE DEFLECTION | 200x200 | AS SHOWN | — | STEEL 19mm BLADE SPACING, MOUNTING TO SUIT INSTALLATION COLOR: WHITE |
| S-5 | DOUBLE DEFLECTION | 600x600 | AS SHOWN | — | STEEL 19mm BLADE SPACING, MOUNTING TO SUIT INSTALLATION COLOR: WHITE |
| E-1 | LOUVERED RETURN | 200x200 | AS SHOWN | — | STEEL 19mm BLADE SPACING, MOUNTING TO SUIT INSTALLATION COLOR: WHITE |
| E-2 | LOUVERED RETURN | 300x300 | AS SHOWN | — | STEEL 19mm BLADE SPACING, MOUNTING TO SUIT INSTALLATION COLOR: WHITE |
| E-3 | LOUVERED RETURN | 600x600 | AS SHOWN | — | STEEL 19mm BLADE SPACING, MOUNTING TO SUIT INSTALLATION COLOR: BY ARCHITECT |
| R-1 | PERFORATED | 600x600 | AS SHOWN | — | PAINTED STEEL, MOUNTING TO SUIT INSTALLATION, COLOR: WHITE |
| R-2 | PERFORATED | 300x300 | AS SHOWN | — | PAINTED STEEL, MOUNTING TO SUIT INSTALLATION, COLOR: WHITE |
| DG | DOOR GRILLE | 400x200 | AS SHOWN | — | FINISHED BORDERS BOTH SIDES OF DOOR. COLOR BY ARCHITECT |

NOTE: SUBMIT COLOR CHART WITH SHOP DRAWINGS

| VAV TERMINAL UNIT SCHEDULE | | | | | | | | | |
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| UNIT NO. | SPACE SERVED | VAV BOX SIZE | 916mm DISCHARGE SOUND ATTENUATOR | HOT WATER REHEAT COIL # OF ROWS | MAX. AIRFLOW (l/s) | MIN. AIRFLOW (%) | HOT WATER REHEAT COIL CAPACITY (kW) | HOT WATER REHEAT COIL WATER FLOW (l/s) | REMARKS |
| VAV-1 | DIRECTOR'S OFFICE | 5 | YES | 2 | 133 | 30 | 1.5 | 0.03 | — |
| VAV-2 | OFFICE AREA | 6 | YES | 2 | 193 | 80 | 2.9 | 0.06 | — |
| VAV-3 | MEETING ROOM | 6 | YES | 2 | 152 | 50 | 1.1 | 0.03 | MODULATES BASED ON CO ₂ , REFER TO CONTROLS DETAILS. |
| VAV-4 | NOT USED | | | | | | | | |
| VAV-5 | BOARDROOM | 5 | YES | 2 | 114 | 50 | 0.8 | 0.03 | MODULATES BASED ON CO ₂ , REFER TO CONTROLS DETAILS. |
| VAV-6 | LUNCH ROOM | 5 | YES | 2 | 116 | 50 | 0.8 | 0.03 | — |
| VAV-7 | QUIET ROOM & COLLABORATIVE AREA | 7 | YES | 1 | 304 | 40 | 2.6 | 0.06 | — |
| VAV-8 | PROGRAM PLANNING - OPEN SPACE | 10 | YES | 2 | 538 | 30 | 3.6 | 0.08 | — |
| VAV-9 | OPERATIONS ROOM | 4 | YES | 2 | 82 | 50 | 0.6 | 0.03 | — |
| VAV-10 | NFIS - OFFICE | 6 | YES | 2 | 146 | 50 | 2.0 | 0.06 | — |
| VAV-11 | COMPUTER FORENSICS | 6 | NO | 2 | 144 | 40 | 0.9 | 0.03 | — |
| VAV-12 | OPEN OFFICE NORTH | 12 | YES | 2 | 741 | 40 | 8.3 | 0.19 | — |
| VAV-13 | OPEN OFFICE SOUTH | 12 | YES | 2 | 741 | 40 | 6.8 | 0.15 | — |

| SILENCER SCHEDULE | | | | | | | | | | | | | | | | |
|-------------------|--------------|----------------------------|--------|---------------|---------------|----------------|-----------|----------------|-----|-----|-----|------|------|------|---|---|
| UNIT No. | LOCATION | CONNECTION DIMENSIONS (ID) | | LENGTH L (mm) | AIRFLOW (l/s) | VELOCITY (m/s) | P.D. (Pa) | INSERTION LOSS | | | | | | | CONSTRUCTION | REMARKS |
| | | W (mm) | H (mm) | | | | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | | |
| SL-1 | AHU-1 SUPPLY | 1050 | 500 | 916 | 3587 | 4 | 50 | - | - | - | - | - | - | - | CASING: 18 Ga. GALV. PERF: 22 Ga. GALV. MEDIA: FIBERGLASS w/ FIBERGLASS CLOTH | RECTANGULAR SILENCER, EXTENDED CASING, SEE DRAWINGS FOR SILENCER LAYOUT |
| SL-2 | AHU-1 RETURN | 1050 | 500 | 916 | 3587 | 4 | 50 | - | - | - | - | - | - | - | CASING: 18 Ga. GALV. PERF: 22 Ga. GALV. MEDIA: FIBERGLASS w/ FIBERGLASS CLOTH | RECTANGULAR SILENCER, EXTENDED CASING, SEE DRAWINGS FOR SILENCER LAYOUT |

| AIR HANDLING UNIT SCHEDULE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| UNIT No. | LOCATION | SUPPLY FANS | | | | | | | | | | | | | | RETURN FANS | | | | | | | | | | MIN O/A (l/s) | MIN O/A (CFM) | | | | | | |
| | | TYPE | AIRFLOW (l/s) | AIRFLOW (CFM) | ESP (Pa) | | ESP ("WG) | | FAN OPERATING /MAX RPM | ISOLATION | | ELECTRICAL | | | | | TYPE | AIRFLOW (l/s) | AIRFLOW (CFM) | ESP (Pa) | | ESP ("WG) | | FAN OPERATING /MAX RPM | ISOLATION | | | ELECTRICAL | | | | | |
| | | | | | TSP (Pa) | TSP ("WG) | TYPE | DEFL | | HP | MOTOR | VFD | W | V/φ | TSP (Pa) | TSP ("WG) | | | | TYPE | DEFL | HP | MOTOR | | VFD | | | W | V/φ | | | | |
| | | | | | 622 | 2.5 | 2942 | SPRING | | 50mm | 15 | PREMIUM EFFICIENCY | Y | — | 575/3 | 250 | | | | 1.0 | 779 | SPRING | 50mm | | 5 | | | PREMIUM EFFICIENCY | Y | — | 575/3 | | |
| AHU-1 | OUTDOOR PAD | BCKWD INCL. AIRFOIL | 3587 | 7600 | 1518 | 6.1 | 3599 | | | | | | | | | FCDWDI | 3587 | 7600 | 425 | 1.7 | 1200 | | | | | | | 696 | 1475 | | | | |

| AIR HANDLING UNIT SCHEDULE | | | | | | | | | | | | | | | | | | | | | | | | |
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| UNIT No. | LOCATION | COOLING | | | | | | | | | | HEATING | | | | REMARKS | FILTER | | | | | | ELECTRICAL | REMARKS |
| | | TYPE | EDB (°C)/ EWB (°C) | LDB (°C)/ LWB (°C) | CAPACITY (kW) | | CAPACITY (MBH) | | DESIGN AMBIENT (°C) | E.E.R. | REMARKS | TYPE | EFF | INPUT/OUTPUT (kW) | INPUT/OUTPUT (MBH) | | PREFILTER | | | POSTFILTER | | | | |
| | | | | | TOTAL | SENSIBLE | TOTAL | SENSIBLE | | | | | | | | | TYPE | DEPTH | MERV | TYPE | DEPTH | MERV | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| AHU-1 | OUTDOOR PAD | DX R-410A | 23.1 16.3 | 11.6 — | 58.3 | 49.8 | 199 | 170 | 35 | 11 | | NATURAL GAS, INDIRECT | 80% | 73/58 | 250/200 | c/w VENT EXTENSION AS REQUIRED | PLEATED | 50mm | 8 | PLEATED | 100mm | 13 | SINGLE POINT POWER CONNECTION, VFD'S PROVIDED AS PART OF AHU, 575/3/60, MOP=70A, PROVIDE DISCONNECT | c/w ECONOMIZER, AIRFLOW MONITORING STATION ON O/A INLET, CONFIGURATION, DIMENSIONS, ACCESS TO BE AS PER LAYOUT DETAILS. PROVIDE TERMINAL STRIP FOR EMCS CONNECTION AS REQUIRED. COORDINATE WITH EMCS CONTRACTOR. INSTALLING CONTRACTOR TO PROVIDE 304 SS WELDED GOOSENECK c/w BIRDSCREEN FOR O/A INTAKE. |

| COMPUTER ROOM AC UNIT SCHEDULE | | | | | | | | | | | |
|--------------------------------|--------------------|---|------------------------|---------------|-------------|--------------------|--------------------------|------------------------------------|------------------------|---|--|
| UNIT No. | AREA SERVED | EVAPORATOR | | | | | | CONDENSER | | | |
| | | TYPE | COOLING CAPACITY (TON) | AIRFLOW (l/s) | EAT DB (°C) | ELECTRIC HEAT (kW) | HUMIDIFIER (TYPE, kg/HR) | TYPE | POWER SUPPLY (V/HZ/PH) | REMARKS | |
| CRAC-1 | COMPUTER/FORENSICS | MINI CEILING MOUNTED DX, AIRFLOW: DOWN DIRECT TO ROOM S/A AND R/A c/w GRILLES | 2.0 | — | 25 | — | — | INTEGRAL REJECTING HEAT TO CEILING | 120/1/60 | DESIGNED TO FIT 600x1200 CEILING TILE, c/w FIELD INSTALLED WALL CONTROLLER c/w DISCONNECT | |

| FAN SCHEDULE | | | | | | | | | | | |
|--------------|----------|-----------------------------|---------------------------------------|---------------|-----------------|----------------|-----------------|------------------|------------------------|---|--|
| UNIT No. | LOCATION | SERVICE | TYPE | AIRFLOW (l/s) | TOTAL S.P. (Pa) | FAN MOTOR (HP) | FAN SPEED (RPM) | BACKDRAFT DAMPER | ELECTRIC MOTOR SERVICE | REMARKS | |
| EF-1 | ROOF | WASHROOMS/ JANITOR'S CLOSET | ROOFTOP DOWNBLAST CENTRIFUGAL EXHAUST | 510 | 125 | 1/2 | 1300 | YES | 120/1/60 | SPUN ALUMINUM, DIRECT DRIVE WITH ECM MOTOR AND FACTORY MOUNTED SPEED CONTROL DIAL c/w 400mm HIGH INSULATED ROOF CURB TO SUIT ROOF SLOPE | |
| EF-2 | ROOF | ELECTRICAL ROOM | ROOFTOP DOWNBLAST CENTRIFUGAL EXHAUST | 800 | 125 | 1/2 | 1300 | YES | 120/1/60 | SPUN ALUMINUM, DIRECT DRIVE WITH ECM MOTOR AND FACTORY MOUNTED SPEED CONTROL DIAL c/w 400mm HIGH INSULATED ROOF CURB TO SUIT ROOF SLOPE. LOCATE FAN EQUALLY SPACED BETWEEN ROOF RIBS. | |
| EF-3 | ROOF | TELECOM ROOM | ROOFTOP DOWNBLAST CENTRIFUGAL EXHAUST | 150 | 125 | 1/2 | 1300 | YES | 120/1/60 | SPUN ALUMINUM, DIRECT DRIVE WITH ECM MOTOR AND FACTORY MOUNTED SPEED CONTROL DIAL c/w 400mm HIGH INSULATED ROOF CURB TO SUIT ROOF SLOPE | |

SCALE : N.T.S.

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