

APPROVAL, REVIEW AND CHECKING	DATE
DESIGNED	15/01/15
CHECKED	15/01/15
REVIEWED	15/01/15
APPROVED	15/01/15

**NOTES**

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS FOR THIS PROJECT.
- THIS DRAWING IS FOR INFORMATION ONLY. THE MECHANICAL SUB CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEYING SITE AND PRODUCING FULLY DIMENSIONED WORKING/FABRICATION DRAWINGS. ALL WORKING DRAWINGS SHALL BE FULLY CO-ORDINATED WITH OTHER TRADES AND BUILDING DETAILS, INCLUDING CEILING/STEEL/BEAM DETAILS, FITL, TO UNDERSIDE OF DUCT ETC.
- ALL DUCTWORK SHALL BE IN ACCORDANCE WITH DW 144.
- ALL EXTERNAL UNITS TO BE PAL COLOUR IN ACCORDANCE WITH ARCHITECTS REQUIREMENTS.
- THE MECHANICAL CONTRACTOR SHALL INCLUDE FOR ALL SECONDARY STEELWORK NECESSARY FOR SUPPORTS OF ROOF. MECHANICAL CONTRACTOR TO REFER TO STRUCTURAL ENGINEERS' DETAILS FOR NECESSARY ADDITIONAL SUPPORT.
- THE EXTERNAL TEMPERATURE SENSORS SHALL BE FACING NORTH AND SHELTERED FROM DIRECT SUN.
- THE INTERNAL TEMPERATURE SENSORS SHALL BE LOCATED AWAY FROM DIRECT SUN.
- THE MECHANICAL CONTRACTOR SHALL INCLUDE FOR THE 3 POSITION (OFF/ON/TEST) KEY SWITCH AS REQUIRED.
- FOR DETAILS OF GRILLES, DIFFUSERS, ATTENUATORS PLEASE REFER TO SCHEDULES
- ALL FLEXIBLE DUCTWORK SHALL BE SEMI-RIGID TYPE AS SPECIFIED. 1 HOUR FIRE RATED TO BS476 ACOUSTIC TYPE AND LIMITED TO A MAXIMUM LENGTH OF 300mm. FLEXIBLE DUCTWORK LONGER THAN 300mm WILL BE REMOVED AND SHORTENED AT NO EXTRA COST.
- INTERNAL INSULATION IS NOT SHOWN FOR CLARITY. ALL NECESSARY INTERNAL INSULATION SHALL BE INCLUDED FOR AS DESCRIBED IN THE SPECIFICATION.
- ALL SHEET METAL DUCTWORK SHALL BE PROVIDED WITH ACCESS DOORS IN COMPLIANCE WITH RECOMMENDATIONS MADE WITHIN HVAC PUBLICATION 'QUALITYNESS OF VENTILATION SYSTEMS' T6/19. ALL POSITIONS OF ACCESS DOORS SHALL BE DETAILD ON THE MECHANICAL SUB-CONTRACTORS WORKING DRAWINGS.
- ALL DUCTWORK TO BE INSTALLED AND CLEANED IN ACCORDANCE WITH HVAC DW/TW2 TO THE INTERMEDIATE LEVEL.
- CONTRACTOR TO PROVIDE ALL VO'S REQUIRED TO ENABLE TOTAL BALANCING OF SYSTEM.
- THE MAIN CONTRACTOR SHALL PROVIDE ACCESS PANELS WITH THE CEILING CONTRIBUTION TO ALLOW ACCESS (FOR COMMISSIONING AND MAINTENANCE PURPOSES) TO VO'S, DT'S AND A'S REFER TO SPECIFICATION FOR DETAILS.



VENTILATION HEAT RECOVERY UNIT INLAIR BESS5 TO BE LOCATED WITHIN CEILING VOID. MECHANICAL CONTRACTOR TO PROVIDE APPROPRIATE MAINTENANCE SPACE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS CONTRACTOR TO ALLOW FOR INSULATION TO ALL DUCTWORK.

ACCESS FOR FULL ROUTINE MAINTENANCE

CLASSROOM WORKSHOP SHALL BE NATURALLY VENTILATED BY HIGH LEVEL OPENING WINDOWS. WINDOWS WILL BE OPERATED BY ELECTRICAL PUSH BUTTON CONTROL.

ACCESS FOR FULL ROUTINE MAINTENANCE

VENTILATION HEAT RECOVERY UNIT INLAIR BESS5 TO BE LOCATED WITHIN CEILING VOID. MECHANICAL CONTRACTOR TO PROVIDE APPROPRIATE MAINTENANCE SPACE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS CONTRACTOR TO ALLOW FOR INSULATION TO ALL DUCTWORK.

DUCT MOUNTED EXTRACT FAN TO SERVE TOILETS. COURTYARD TO BE VENTILATED BY HIGH LEVEL OPENING WINDOWS.

MAKE UP THROUGH DOOR UNDERCUT

NATURAL VENTILATION VIA OPENING DOORS

IN ABEYANCE

700-000 KITCHEN EXTRACT DUCTWORK TO RISE TO ABOVE TO DISCHARGE. SIZES AND ACCESS TO BE CONFIRMED BY KITCHEN SPECIALIST

CAFE SHALL BE NATURALLY VENTILATED BY OPENING WINDOWS

700-000 KITCHEN SUPPLY DUCTWORK FROM ABOVE ROOF. SIZES AND ACCESS TO BE CONFIRMED BY KITCHEN SPECIALIST AND RISERS TO ROOF TO TERMINATE WITH PROOF COM. AND BOXING IN

EXTRACT FANS

REF	ROOM SERVED	MODEL REF	DUTY (L/S)	CONTROL
EFO1	G16, G17 TOILETS	SENT150S/GP	25	PIR
EFO2	TOILET BLOCK	SENT250S/GP	100	PIR

NOTE: ALL VENTILATION UNITS TO BE COMPLETED WITH WEATHERPROOF COM. C/W BRD MESH.

EXTRACT FAN UNITS TO BE MANUFACTURED BY VENT-AVIA, FLEMING WAY, CRAWLEY, WEST SUSSEX, RH10 9YX, UK. (0)1344 866 0390

DIRTY EXTRACT GRILLES

REF	ROOM SERVED	MODEL REF	DUTY
DEG01	G16 TOILET	SVA-100	13
DEG02	G17 TOILET	SVA-100	13
DEG03	G7 DS WC	SVA-150	20
DEG04	G18 WC	SVA-150	20
DEG05	G19 WC	SVA-150	20
DEG06	G20 WC	SVA-150	20
DEG07	G21 WC	SVA-150	20

ATTENUATORS

REF	ROOM SERVED	MODEL REF	DUTY
ATTO1	G7 DS WC	RCP 900	100
ATTO2	G7 DS WC	RCP 600	100
ATTO3	G16 17 WC	RCP 600	25
ATTO4	G16 17 WC	RCP 900	25

LOUVRES TO BE MANUFACTURED BY SOCHAKO, SOCHAKO Ltd, Index House, St Georges Lane Ascot, Berkshire, SL5 7EU, TEL: 00 44 (0) 13 44 63 63 89

ATTENUATORS TO BE MANUFACTURED BY TEK LIMITED, SEELY ROAD, GRETTON, BRIMMINGHAM B11 2JQ, TEL: 0121 789 5003

**LEGEND:**

- NATURAL VENTILATION VIA OPENING WINDOW
- EXTRACT VALVE
- VARIABLE CONTROL DAMPER
- DOOR TRANSFER GRILLE
- LOWER GALLERY SHALL BE NATURALLY VENTILATED BY OPENING WINDOWS.

**couchferrywilkes**  
 Engineering Change

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**CLIENT**  
 LAUDERDALE HOUSE TRANSFORMED  
 WATERLOW PARK  
 GREATER LONDON

**PROJECT**  
 LAUDERDALE HOUSE TRANSFORMED  
 WATERLOW PARK  
 GREATER LONDON

**STATUS**  
 TENDER ISSUE

**SCALE**  
 1:50 (A1)

**DATE**  
 2015

**BY**  
 AL GF

**DATE**  
 2015

**FILE**  
 10328/M/201

**REV**  
 T1