

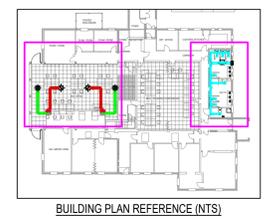
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**DESIGNERS RISK ASSESSMENT**  
REFER TO APPENDIX 1 OF M&E SPECIFICATION FOR DESIGNERS RISK ASSESSMENT SCHEDULE

**DRAWING BACKGROUND(S):**  
ARCHITECTS: CROSBY\_CAD FILE NOVEMBER 2018\_JB

LEGEND	
SYMBOL	DESCRIPTION
	Ø250 DISTRIBUTION DUCTWORK WITH 50mm INSULATION
	EXTRACT
	EXTRACT GRILLE
	SUPPLY DIFFUSER
	EXTRACT BELLMOUTH
	FLEXIBLE CONNECTION
	VOLUME CONTROL DAMPER
	GRILLE REFERENCE
	VOLUME CONTROL DAMPER

- NOTES:**
- ALL DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH DW144.
  - FLEXIBLE DUCTWORK SHALL BE ACOUSTICALLY LINED AND INSTALLED IN LENGTHS OF 500mm MAXIMUM.
  - VOLUME CONTROL DAMPERS MUST BE INSTALLED IN APPROPRIATE AND ACCESSIBLE LOCATIONS.
  - ALL CONNECTIONS TO PLENUM BOXES SERVING SWIRL DIFFUSERS ARE TO BE MADE WITH FLEXIBLE DUCTWORK.
  - ALL DUCTWORK FROM MVHR UNITS IS TO BE LINED WITH 50mm THERMAL INSULATION.
  - CONTRACTOR TO VERIFY ALL DUCTWORK ROUTES IN DETAIL.



T2	10.01.19	VENTILATION STRATEGY REDESIGN	SP GR
T1	20.12.18	PRELIMINARY ISSUE	SP GR
Rev	Date	Description	Eng/Chk

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Client  
**mca**  
Maritime and Coastguard Agency

Project  
**HM COASTGUARD  
HALL ROAD WEST  
CROSBY  
LIVERPOOL L23 8SY**

Drawing Title  
**GROUND FLOOR  
VENTILATION LAYOUT**

Status  
**TENDER**

Project No. 1752	Drawn SP	Scale / Paper Size 1:50 @ A1
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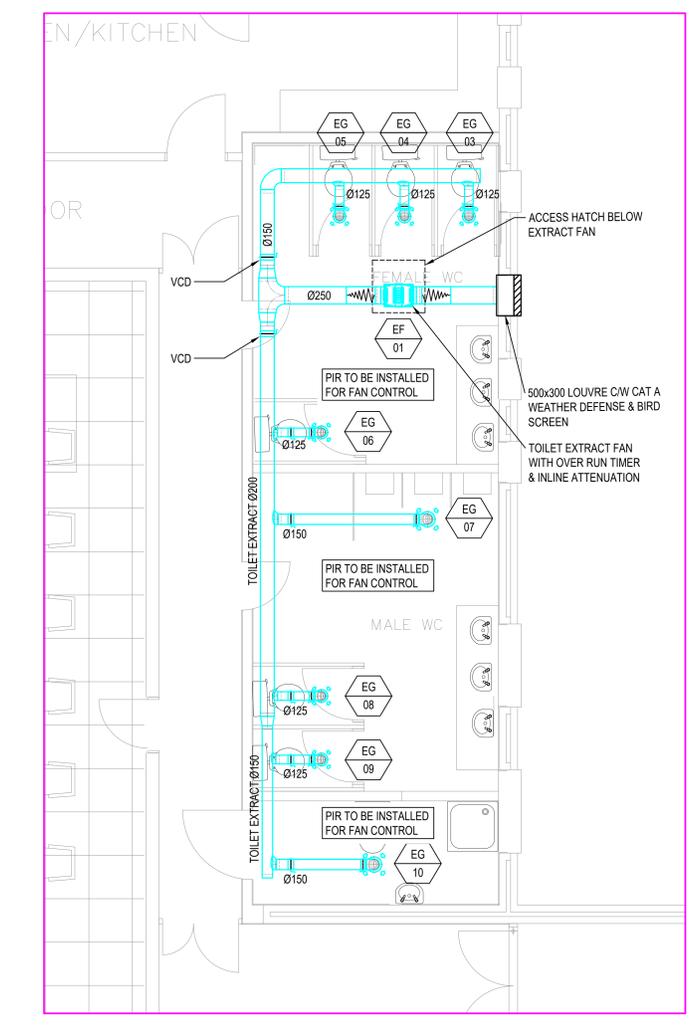
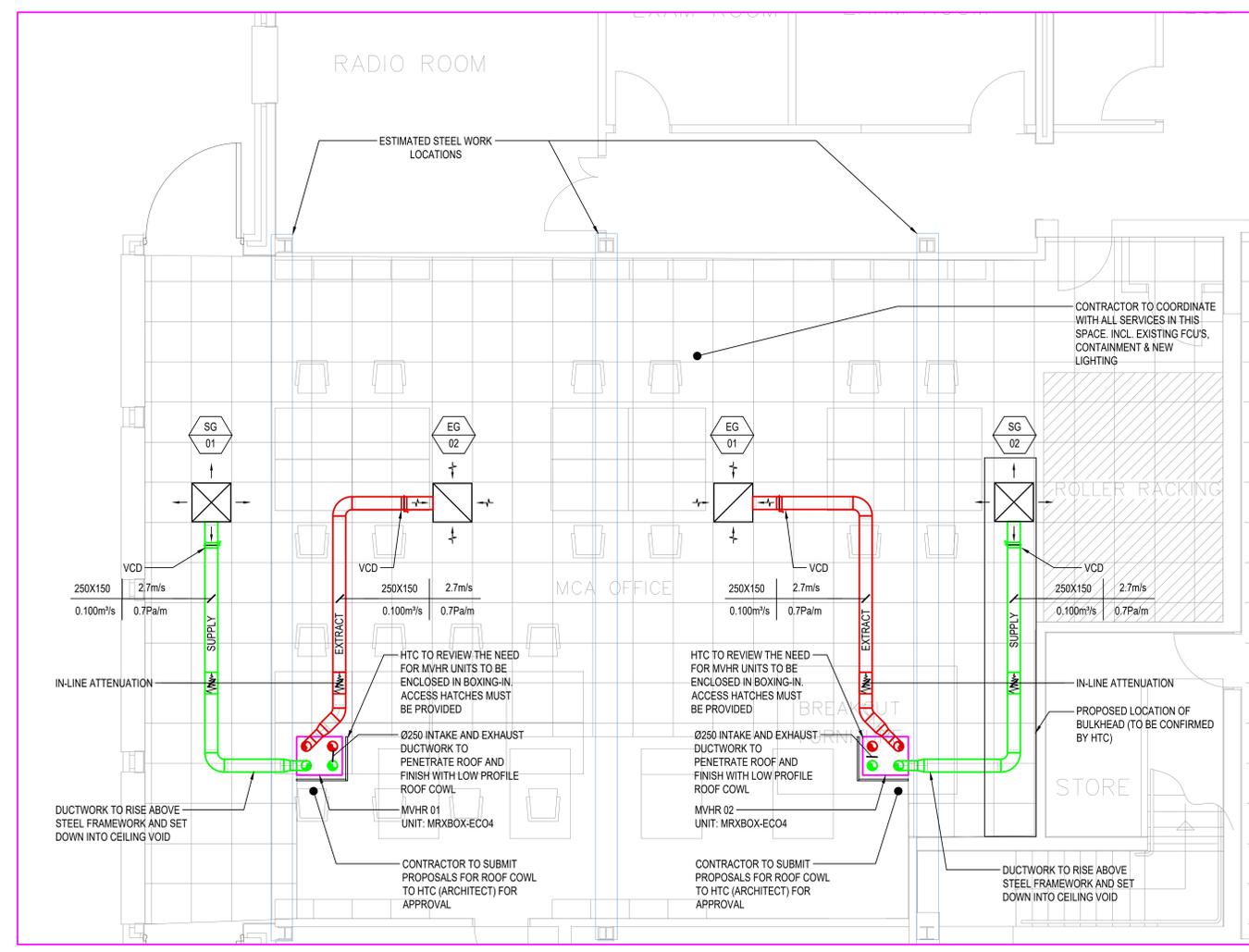
Drawing No. 1752-GF-5701	Rev T2
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Extract Fan Schedule				
Ref	Manufacturer	Volume (l/s)	Pressure (Pa)	Control
EF01	VENT AXIA	156	55	PIR & OVERRUN TIMER

Mechanical Equipment Schedule				
Ref	Manufacturer	Model	Volume (l/s)	Size
MVHR 01	NUAIRE	MRXBOX-ECO4	100	734x585X710
MVHR 02	NUAIRE	MRXBOX-ECO4	100	734x585X710

Grille Schedule						
Ref	System	Manufacturer	Type	Model	Volume (l/s)	Size
SG01	MVHR	GDL	Swirl diffuser	87C20+6B	104	595x595
SG02	MVHR	GDL	Swirl diffuser	87C20+6B	104	595x595
EG01	MVHR	GDL	Egg Crate	S50	104	595x595
EG02	MVHR	GDL	Egg Crate	S50	104	595x595
EG03	TOILET EXTRACT	GDL	Extract Valve	96E00	16	125
EG04	TOILET EXTRACT	GDL	Extract Valve	96E00	16	125
EG05	TOILET EXTRACT	GDL	Extract Valve	96E00	16	125
EG06	TOILET EXTRACT	GDL	Extract Valve	96E00	16	125
EG07	TOILET EXTRACT	GDL	Extract Valve	96E00	32	150
EG08	TOILET EXTRACT	GDL	Extract Valve	96E00	16	125
EG09	TOILET EXTRACT	GDL	Extract Valve	96E00	16	125
EG10	TOILET EXTRACT	GDL	Extract Valve	96E00	28	150

Workspace Ventilation				
Calculation Spreadsheet		Air Change Rate		
Job No. : 1752		10 l/s/p		
Job Title: Crosby Coastguard		Occupancy Levels		
Revision: 1		20 persons		
Office / Workspace Area Ventilation				
Floor Level	NIFA (m²)	Occupancy Level	Air (l/s/p)	Ventilation Rate (l/s)
Operations Room	157	20	10	200
<b>Total (l/s)</b>				200
<b>Total + 5% (l/s)</b>				210.00
<b>Total + 5% (m³/s)</b>				0.21



**A GROUND FLOOR OFFICE VENTILATION**  
COOLING, HEATING & VENTILATION DETAIL

**B GROUND FLOOR TOILET EXTRACT SYSTEM**  
COOLING, HEATING & VENTILATION DETAIL

Drawing Title  
**GROUND FLOOR  
VENTILATION LAYOUT**

Status  
**TENDER**

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