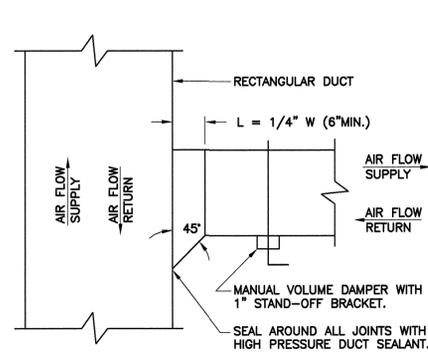
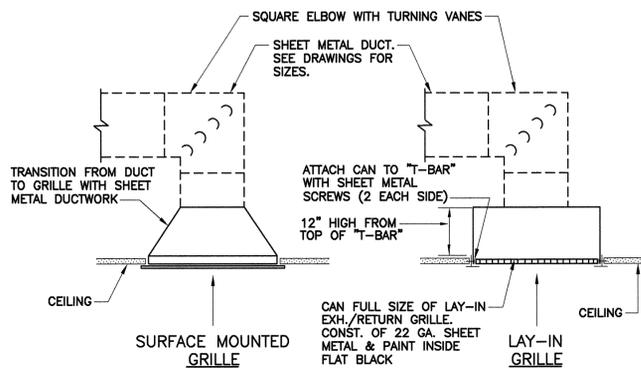


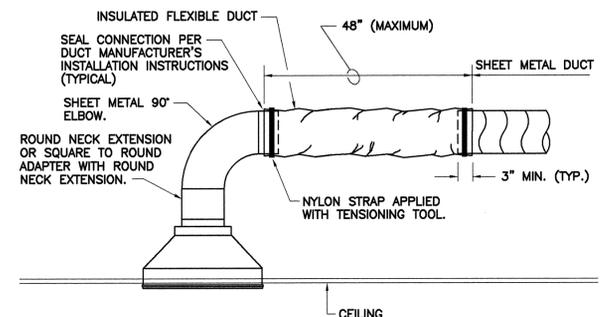
1 SUPPLY DUCT TAKE-OFF FITTING DETAIL
M3.0 NOT TO SCALE



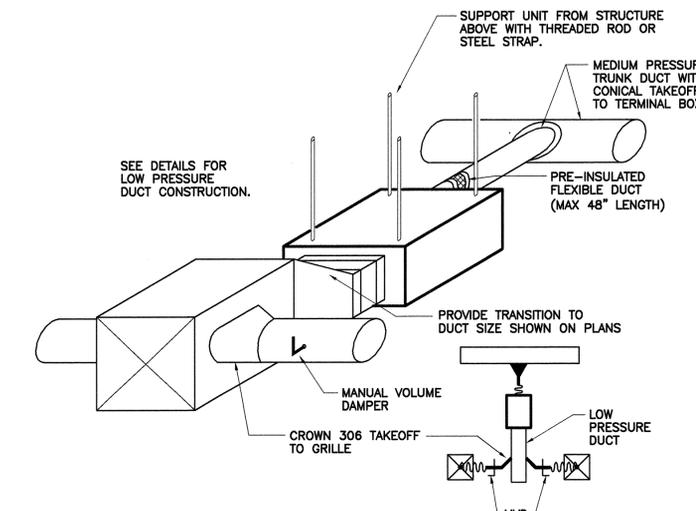
2 RECTANGULAR SUPPLY AND RETURN DUCT TAKE-OFF DETAIL
M3.0 NOT TO SCALE



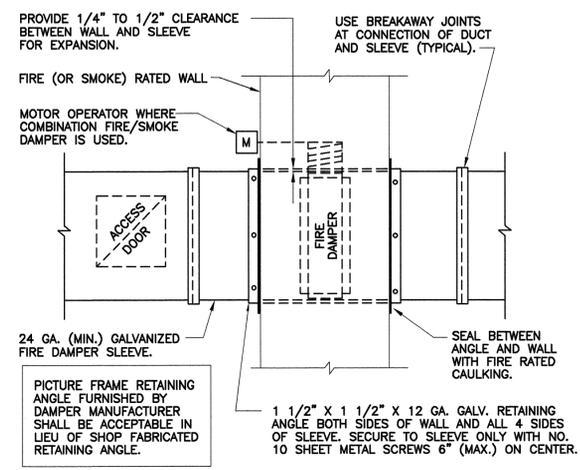
3 EXHAUST/RETURN GRILLE CONNECTION DETAILS
M3.0 NOT TO SCALE



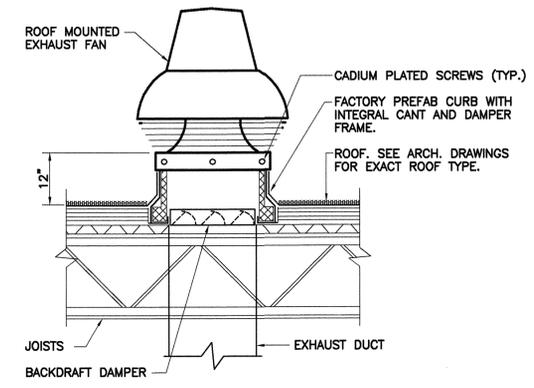
4 FLEXIBLE ROUND DUCT CONNECTION DETAIL
M3.0 NOT TO SCALE



6 VAV TERMINAL BOX DETAIL
M3.0 NOT TO SCALE



7 FIRE DAMPER & SLEEVE DETAIL
M3.0 NOT TO SCALE (SIMILAR FOR SMOKE DAMPER)



5 ROOF MOUNTED EXHAUST FAN DETAIL
M3.0 NOT TO SCALE

HVAC NOTES:

NOT ALL EXISTING WORK IS SHOWN, AND THAT SHOWN IS IN ITS APPROXIMATE LOCATION AND ARRANGEMENT. EXACT LOCATION, ARRANGEMENT AND SIZES SHALL BE VERIFIED ON THE JOB BEFORE STARTING ANY NEW WORK.

INSTALL PIPING AND DUCTWORK IN EQUIPMENT ROOMS ADJACENT TO WALLS AND CEILINGS, WHERE POSSIBLE, TO PROVIDE MAXIMUM ROOM CLEARANCE.

COORDINATE THE INSTALLATION OF THIS WORK WITH THAT OF OTHER TRADES TO PROVIDE THE BEST ARRANGEMENT OF PIPING, DUCTWORK, AND EQUIPMENT. REFER TO PLUMBING AND ELECTRICAL DRAWINGS.

PIPING, DUCTWORK, AND EQUIPMENT IS SHOWN IN ITS GENERAL LOCATION, UNLESS DIMENSIONED. EXACT LOCATION SHALL BE DETERMINED BY THE LOCATION OF OTHER EQUIPMENT, AND TO PROVIDE SERVICE CLEARANCE.

ARRANGE PIPING AND DUCTWORK TO CLEAR STRUCTURAL MEMBERS, PLUMBING, PIPING AND LIGHT FIXTURES.

EXACT LOCATION OF GRILLES AND CEILING OUTLETS SHALL BE DETERMINED ON THE JOB. COORDINATE WITH LIGHTS AND ARCHITECTURAL REQUIREMENTS TO PROVIDE A UNIFORM AND SYMMETRICAL APPEARANCE. REFER TO ARCHITECTURAL AND ELECTRICAL DRAWINGS AND DETAILS.

ALL PIPING SHALL BE CONCEALED, UNLESS NOTED OTHERWISE.

PROVIDE FLEXIBLE DUCT CONNECTIONS TO ALL AIR HANDLING EQUIPMENT.

PROVIDE UNION OR FLANGE CONNECTIONS IN PIPING AT ALL EQUIPMENT AND CONTROL VALVES, AND AS REQUIRED FOR SERVICE.

PROVIDE ACCESS DOORS IN DUCTWORK FOR ALL FIRE AND SMOKE DAMPERS, AND DUCT-MOUNTED COILS AND CONTROL DEVICES.

SLOPE DRAIN LINES TOWARD DRAIN WITH A MINIMUM SLOPE OF 1/4" PER FOOT.

Sequence of Operation

Terminal unit (Dual duct):

- On rise in space temperature, the cooling air valve shall modulate towards the maximum position while the heating air valve shall modulate towards the minimum position. The sum of the cooling air flow and the heating air flow shall equal no less than the minimum airflow as indicated on the schedule.
- On drop in space temperature, the heating air valve shall modulate towards the maximum position while the cooling air valve shall modulate towards the minimum position. The sum of the cooling air flow and the heating air flow shall equal no less than the minimum airflow as indicated on the schedule.

Fans:

- See fan schedule.

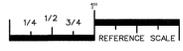
Facility Management System (FMS):

- All new digital controls shall be compatible with and integrated into the existing Johnson Controls Metasys system. Furnish all necessary software and provide basic icon graphics on all user terminals in the facility.

Smoke (or Combination) Damper/Smoke Detector: Upon sensing smoke at the detector, the damper shall close. When the damper is closed, the indicator light shall illuminate on the ceiling below the damper.

FMS INPUT/OUTPUT SUMMARY	OUTPUTS		INPUTS		SOFTWARE			
	BINARY	ANALOG	BINARY	ANALOG	ALARM	DDC	ENERGY MGMT.	
MISCELLANEOUS	START/STOP ENABLE/DISABLE OPEN/CLOSE	SETPPOINT ADJUST DDC CONTROL	DIFF. PRESSURE SWITCH AUX. CONTACT ALARM CONTACT CURRENT SENSING RELAY	TEMPERATURE RELATIVE HUMIDITY PRESSURE VOLUME (CFM) STATUS/INTERLOCK H/LO LIMIT	RUN TIME TOTALIZATION	PROP. + INTEGRAL	TIME SCHEDULE S/S OPTIMUM START/STOP DAY/NIGHT SETBACK DEMAND LIMIT/CYCLE RESET OPTIMIZATION ECONOMIZER FAN SYNCHRONIZATION	NOTES
RV-1	X	X	X	X				

FMS INPUT/OUTPUT SUMMARY	OUTPUTS		INPUTS		SOFTWARE			
	BINARY	ANALOG	BINARY	ANALOG	ALARM	DDC	ENERGY MGMT.	
TERMINAL UNIT TYPICAL FOR DUAL DUCT	START/STOP ENABLE/DISABLE OPEN/CLOSE	SETPPOINT ADJUST DDC CONTROL	DIFF. PRESSURE SWITCH AUX. CONTACT ALARM CONTACT PULSE CONTACT	TEMPERATURE RELATIVE HUMIDITY PRESSURE VOLUME (CFM) STATUS/INTERLOCK H/LO LIMIT	RUN TIME TOTALIZATION	PROP. + INTEGRAL	TIME SCHEDULE S/S OPTIMUM START/STOP DAY/NIGHT SETBACK DEMAND LIMIT/CYCLE RESET OPTIMIZATION ECONOMIZER FAN SYNCHRONIZATION	NOTES
DAMPER (COOLING)			X			X		
DAMPER (HEATING)			X			X		
AIRFLOW (COOLING)				X				
AIRFLOW (HEATING)				X				
ROOM TEMPERATURE				X				
ROOM OFFSET				X				



PLOT DATE: 04/26/11
 FILENAME: 08101M3
 BASESHT: 08101BDR
 PLOT SCALE: 1 = 96
 CAB

REVISIONS:	DATE:	DRAWN BY:
		CAB
		CHECKED BY:
		JMF



VIRGO GAMBILL ARCHITECTS
 2531 CENTER WEST PARKWAY, SUITE 200
 AUGUSTA, GEORGIA 30909
 (706) 736-3661

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APPROVED BY:
 MEDICAL CENTER DIRECTOR

APPROVED BY:
 FACILITY MANAGEMENT SERV LINE EXEC

PROJECT TITLE:
 RENOVATE "E" WING BUILDING 801, DOWNTOWN DIVISION AUGUSTA, GEORGIA

DRAWING TITLE:
 HVAC DETAILS AND NOTES

DATE:
 APRIL 29, 2011

VA PROJECT NO.
 509-318E

DRAWING NO.
 801-M3.0

DWG. 36 of 44



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