



- NOTES
1. ALL DUCTWORK SHALL BE IN THE TRUSS SPACE WHERE POSSIBLE.



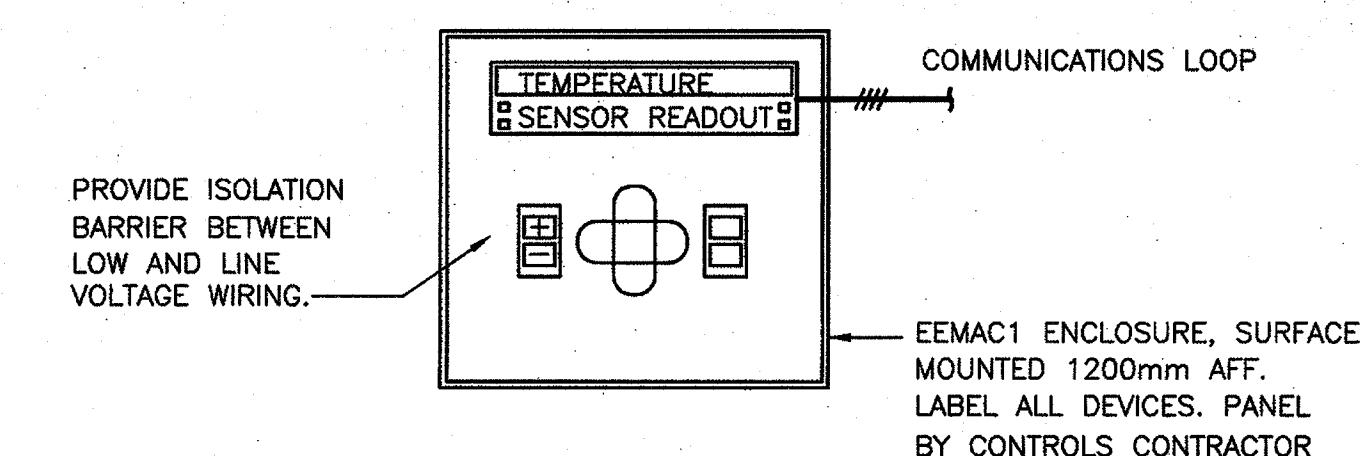
1. BALANCE ALL DIFFUSERS/GRILLES AS INDICATED. ADJUST UNIT FLOW (I.E. FAN SPEED) AS REQUIRED, TO MEET SPACE AIR FLOW REQUIREMENTS.
2. PROVIDE FIRE DAMPERS FOR ALL DUCT PENETRATIONS THROUGH FIRE RATED WALLS.
3. THIS CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE AND VERIFY ROUTING DUCTWORK INSTALLATION TO AVOID CONFLICTS WITH OTHER TRADES AND THE OWNER PRIOR TO THE ACTUAL INSTALLATION.
4. ALL DUCT TAKE OFFS TO BE C/W BALANCING DAMPERS UNLESS OTHERWISE NOTED.
5. FLEXIBLE DUCT WORK TO BE A MINIMUM OF 2100mm LONG.
6. PROVIDE DUCT ACCESS DOORS EVERY 12m IN MAIN DUCT RUNS.
7. ALL DUCT TURN RADIUS TO BE MINIMUM OF 1.5x WIDTH OF THE DUCT.
8. SUPPLY, RETURN AND EXHAUST DUCTWORK TO BE THERMALLY INSULATED WITH 25mm THICK FLEXIBLE FIBREGLASS DUCT INSULATION SEE SPECIFICATION FOR DESCRIPTION.
9. DIFFUSERS WHERE THERE IS NO CEILING TO BE SECURED AND FASTENED TO SLAB/WALL.
10. NEW DUCTWORK INSTALLATION TO BE ROUTED AS TIGHT AS POSSIBLE STRUCTURE, ALLOWING FOR HEAD ROOM.



1. DO NOT SCALE FROM THIS DRAWING.
2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE BEFORE PROCEEDING WITH ANY PORTION OF THIS WORK.

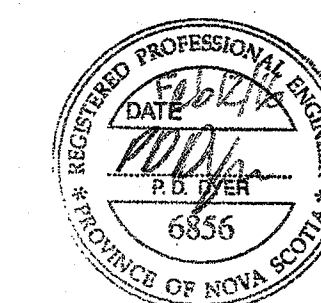
### HEATING COIL ISOMETRIC

N.T.S

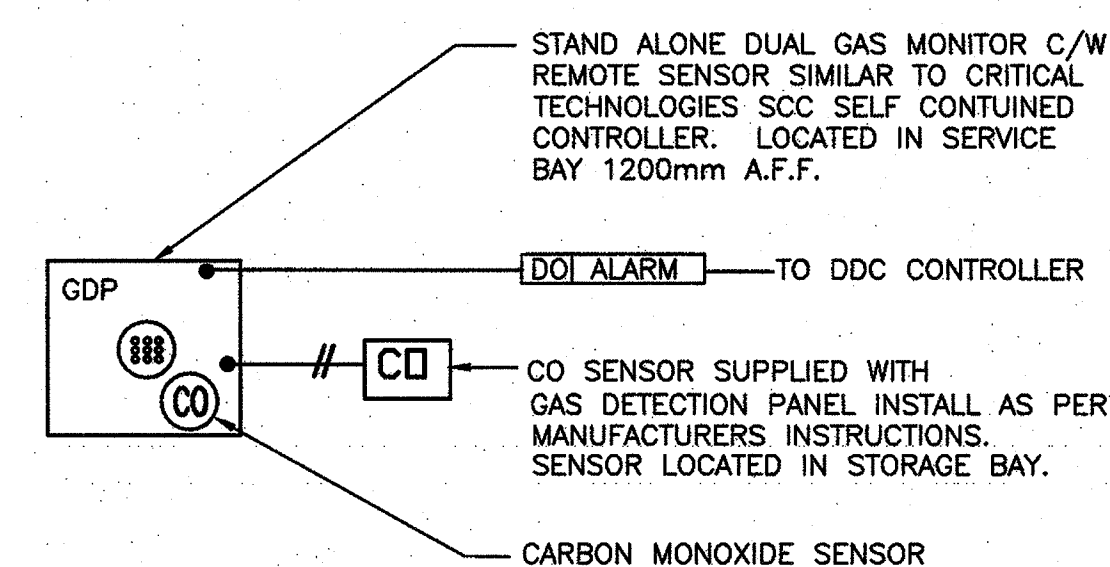


## CONTROL PANEL

N.T.S.



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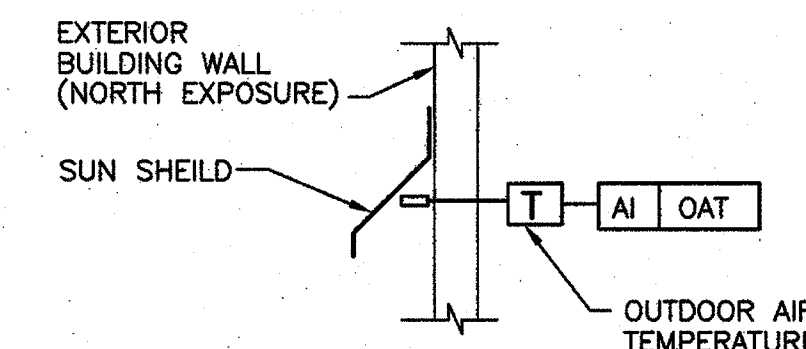
GAS DETECTION PANEL

NTS

- CO/ SENSORS SHALL MONITOR AREAS CARBON MONOXIDE LEVELS. AS THE CO/ LEVEL INCREASES TO THE CO/ LOW LEVEL SETPOINT (25ppm), THE SYSTEM SHALL ACTIVATE HIGH SPEED AT ERV1 FAN MOTOR SPEED DRIVE AND ACTIVATE THE VISUAL ALARM. IF THE CO HIGH LEVEL VISUAL SETPOINT IS DETECTED THE SYSTEM AUDIBLE ALARM SHALL BE ACTIVATED.

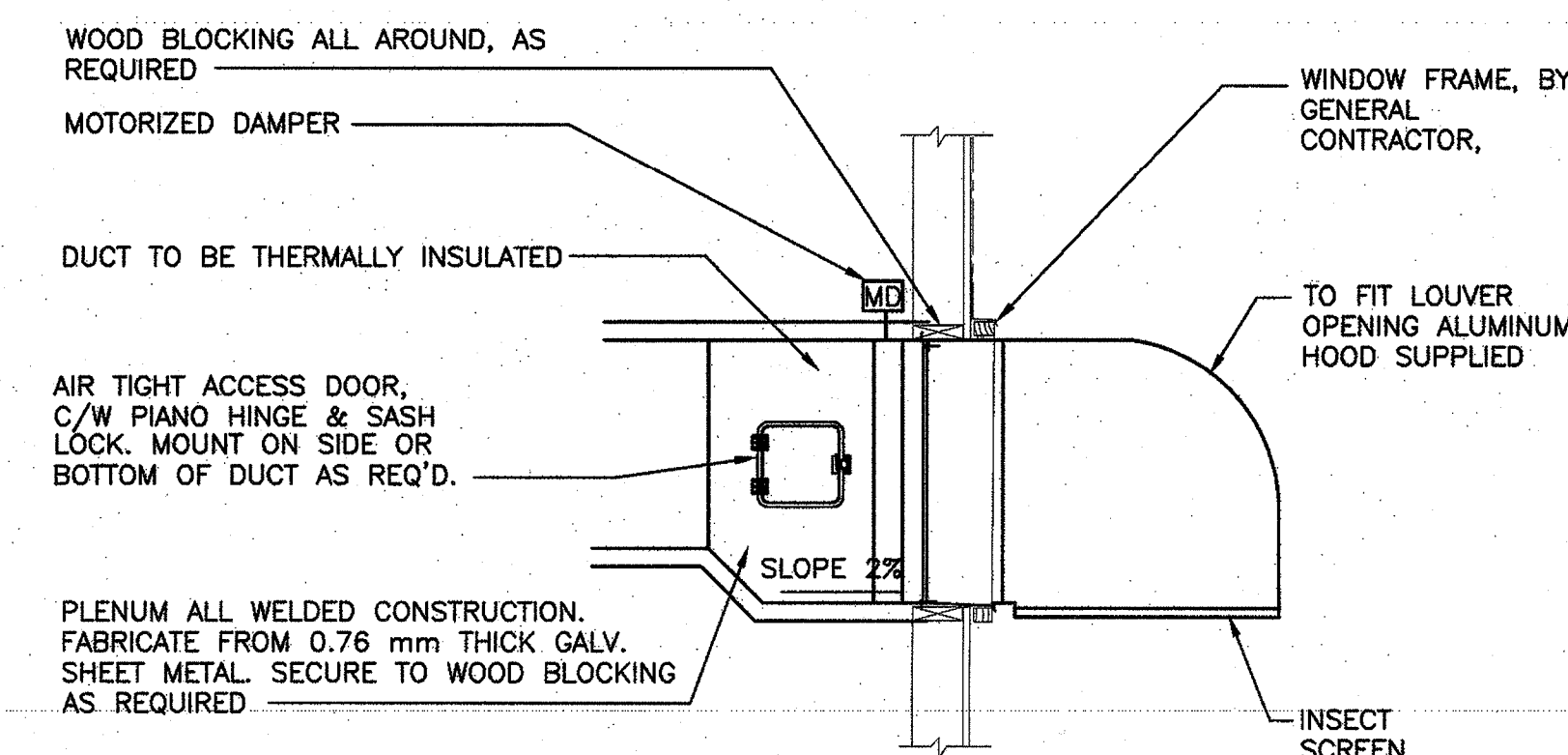
## CARBON MONOXIDE DETECTION SYSTEM

N.T.S.



SEQUENCE OF OPERATION:

1. THE ENERGY RECOVERY VENTILATOR #1 RUNS CONTINUOUSLY DURING OCCUPIED HOURS AND IS CONTROLLED BY HIGH/OFF SWITCH NEXT TO ERV UNIT. THE SWITCH IS TO HAVE THE OPTION OF HIGH SPEED(100%) OR LOW SPEED(50%). UNIT TO SHUT OFF DURING UNOCCUPIED HOURS.
2. ON AN ALARM SIGNAL FROM THE GAS DETECTION PANEL THE ERV SUPPLY AND EXHAUST FAN MOTOR VFD'S ARE TO BE INCREASE TO (100%).
3. DUCT MOUNTED HEATING COIL SHALL MODULATE TO MAINTAIN A SUPPLY AIR TEMPERATURE OF 20° C.

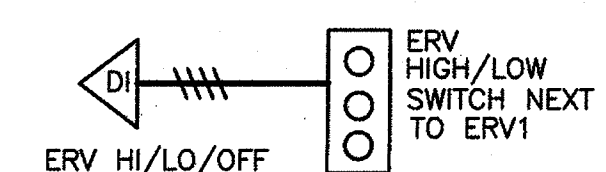
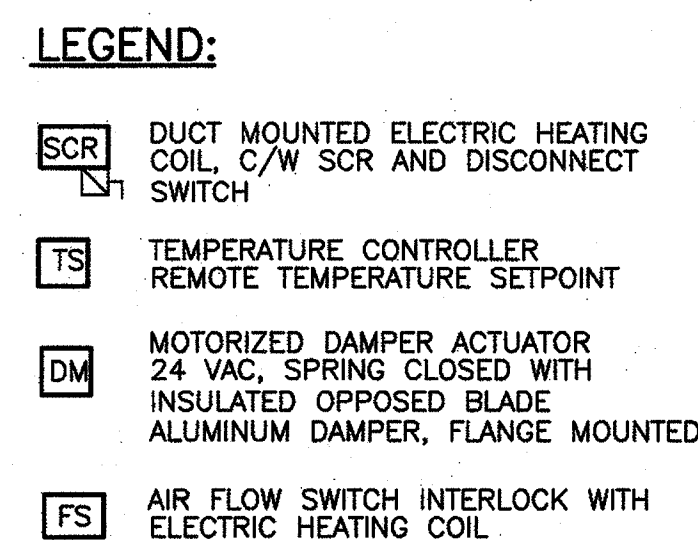


TYPICAL SUPPLY/EXHAUST VENT MOUNTED DETAIL

NTS



NTS



SCALE - N.T.S.



SCALE - NTS



SCALE = NTS