

A

B

C

D

E

F

A

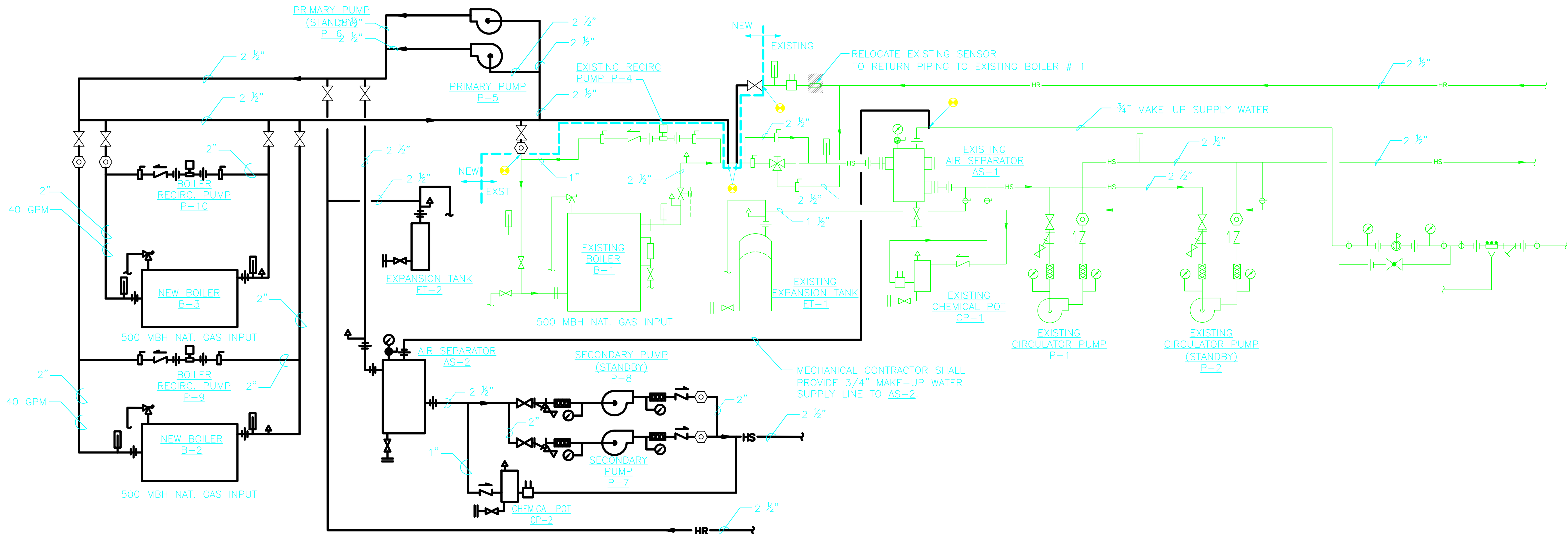
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C

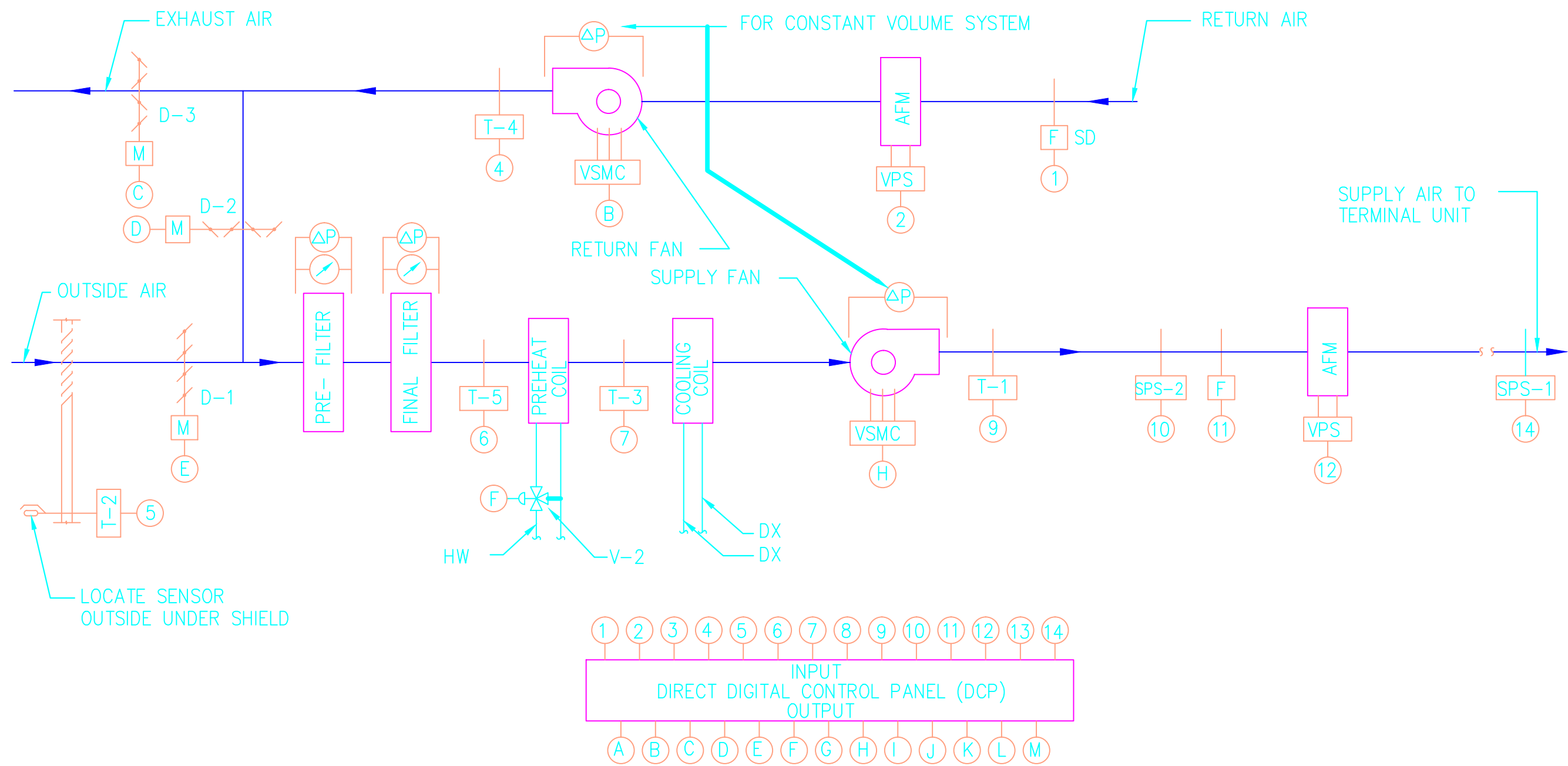
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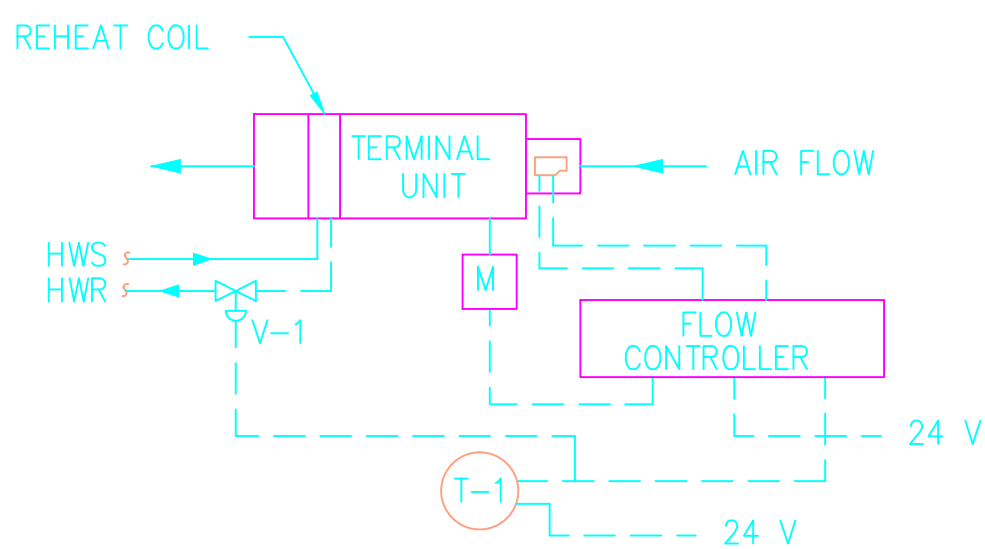
F



MECHANICAL PIPING SCHEMATIC
HIS



CONTROL SCHEMATIC



VAV AIR TERMINAL UNIT WITH
REHEAT CONTROL DIAGRAM

ROOM THERMOSTAT T-1 SHALL CONTROL DDC OPERATOR FOR VARIABLE VOLUME TERMINAL UNIT AND REHEAT COIL VALVE V-1. ON A DROP IN ROOM TEMPERATURE BELOW THE SET POINT, ROOM THERMOSTAT T-1, THRU DDC OPERATOR, SHALL REDUCE AIR FLOW TO THE ROOM TO THE UNIT MINIMUM SETTING. ON A FURTHER DROP IN ROOM TEMPERATURE, ROOM THERMOSTAT T-1 SHALL MODULATE VALVE V-1 TO MAINTAIN THE REQUIRED TEMPERATURE.

LEGENDS

AFM	AIR FLOW MEASURING DEVICE	MONITORS AIR FLOW RATE TRANSMITS VELOCITY PRESSURE TO DCP.
Δ P	DIFFERENTIAL PRESSURE SENSOR	TRANSMITS DIFFERENTIAL PRESSURE TO DCP TO INDICATE FILTER CONDITIONS AND STATUS OF FANS.
DCP	DISTRIBUTED CONTROL PANEL	CONTROLS OPERATION OF AIR HANDLING UNITS IN ACCORDANCE WITH THE SEQUENCE OF OPERATION.
D-1	OUTSIDE AIR DAMPER, MODULATING	OPENS WHEN SUPPLY FAN STARTS AND CLOSES WHEN SUPPLY FAN STOPS.
D-2	RETURN AIR DAMPER, MODULATING	VARIABLES RETURN AIR FLOW IN RESPONSE TO SUPPLY AIR
D-3	RELIEF AIR DAMPER, MODULATING	VARIABLES RELIEF AIR FLOW IN RESPONSE TO DCP.
ECC	ENGINEERING CONTROL CENTER	WORK STATION FOR MONITORING OF SYSTEMS OPERATIONS, CONNECTED TO ECC.
F SD	DUCT SMOKE DETECTORS (FURNISHED AND WIRED TO FIRE ALARM PANEL BY ELECTRICAL)	PROVIDE SMOKE SIGNAL TO DCP.
Pressure Gauge	PRESSURE GAUGE	FILTER CONDITION INDICATOR (LOCAL)

SEQUENCE OF OPERATION

SEE SPECIFICATION SECTION 15940 FOR FURTHER INFORMATION

FULLY SPRINKLERED

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100% SUBMITTAL	05.03.05
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Drawing Title
**HVAC SCHEMATICS
AND CONTROL DIAGRAM**

Approved: Project Director

Project Title
**Expand Community
Based Outpatient
Clinic**

Location
V.A.M.C. LOCH RAVEN

Building Number
6

Checked
LJS

Drawn
KDW

Date
05.03.05
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Dwg. 47 of 74

**Loch Raven
Outpatient
Clinic**

