

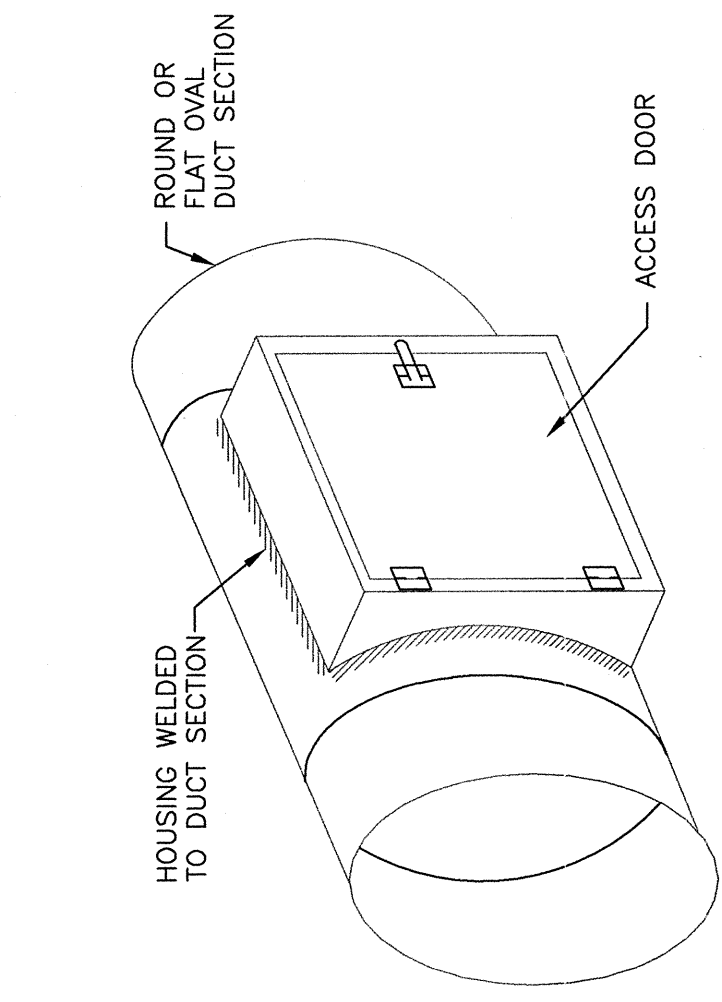
- NOTES:
1. LATCHES SHALL BE OF THE WEDGE TYPE TO CLOSE DOORS TIGHTLY.
 2. HINGES ON THE ACCESS DOORS SHALL HAVE NON-CORROSIVE PINS.
 3. SEE SMACNA 2005, FIGURE 9-15

1 ACCESS DOOR DETAIL

SCALE NTS

2 FLEXIBLE DUCT CONNECTIONS

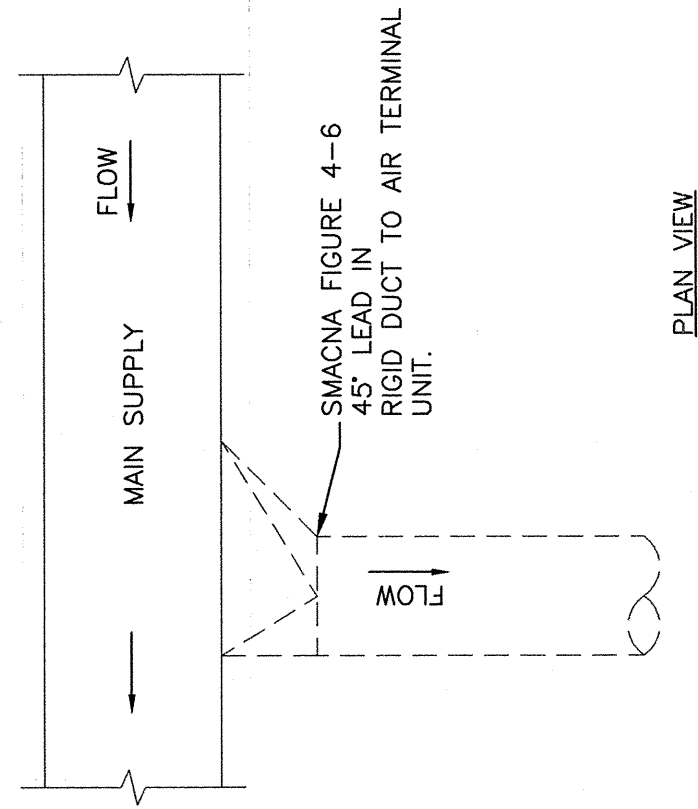
SCALE NTS



NOTE: UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.

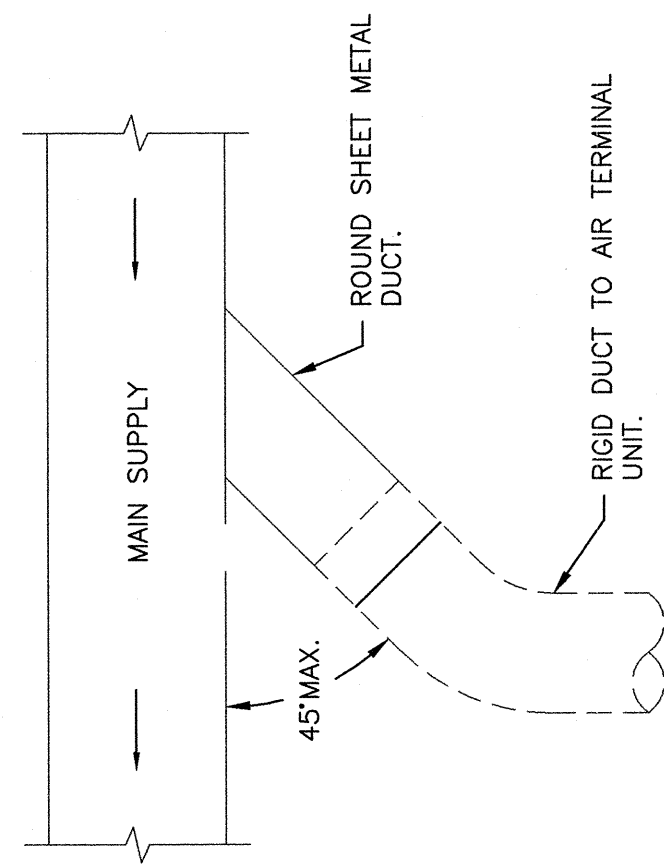
7 DUCTWORK TRANSITIONS (WITH EQUIPMENT MOUNTED IN DUCT)

SCALE NTS



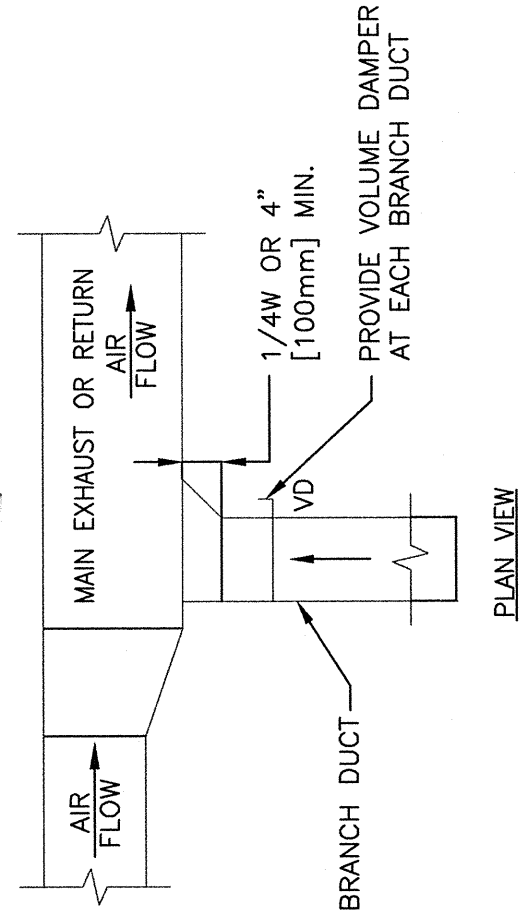
12 ALTERNATE SUPPLY DUCT TAKEOFF - AIR TERMINAL UNITS

SCALE NTS



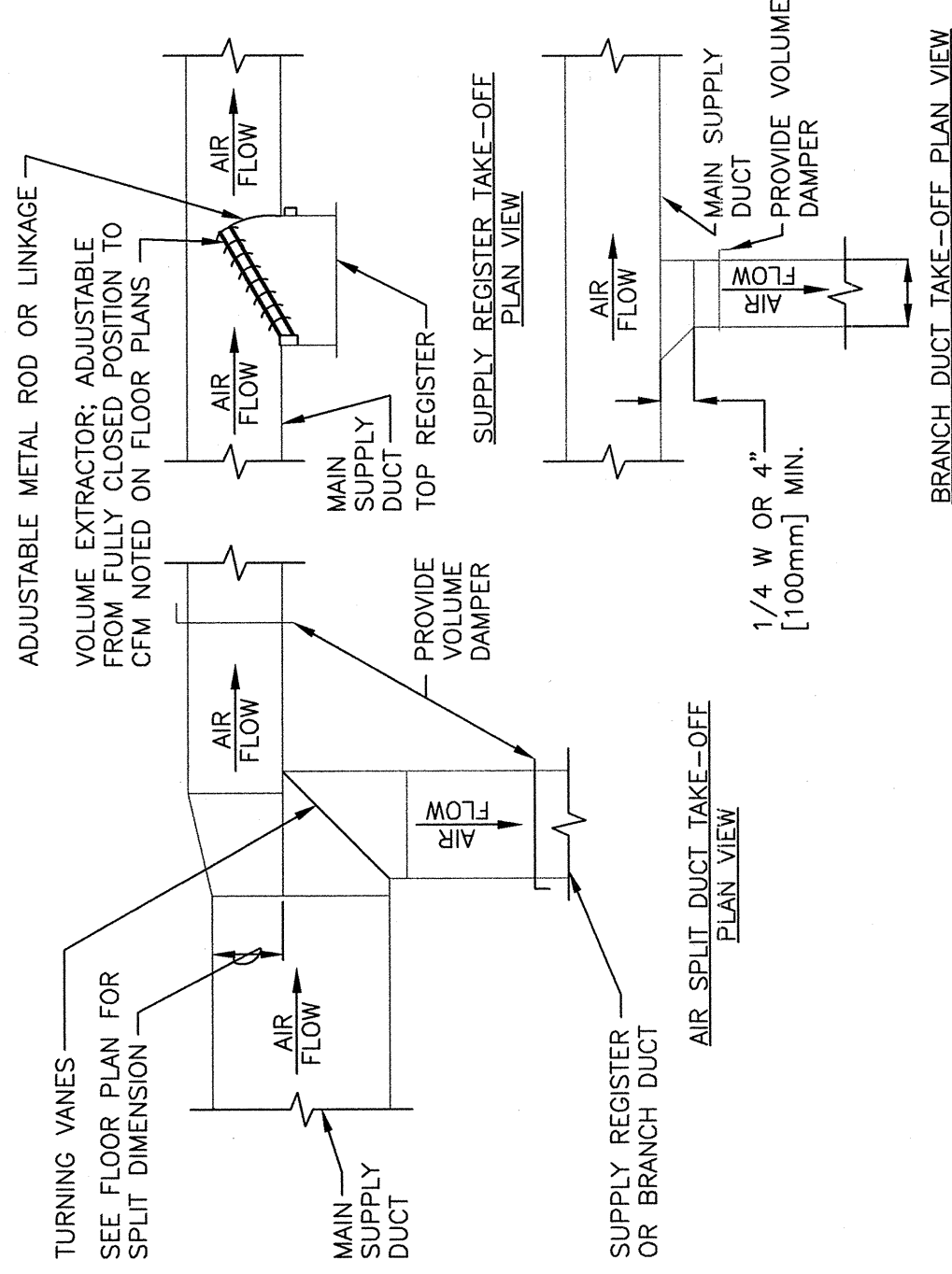
11 SUPPLY DUCT TAKEOFF - AIR TERMINAL UNIT

SCALE NTS



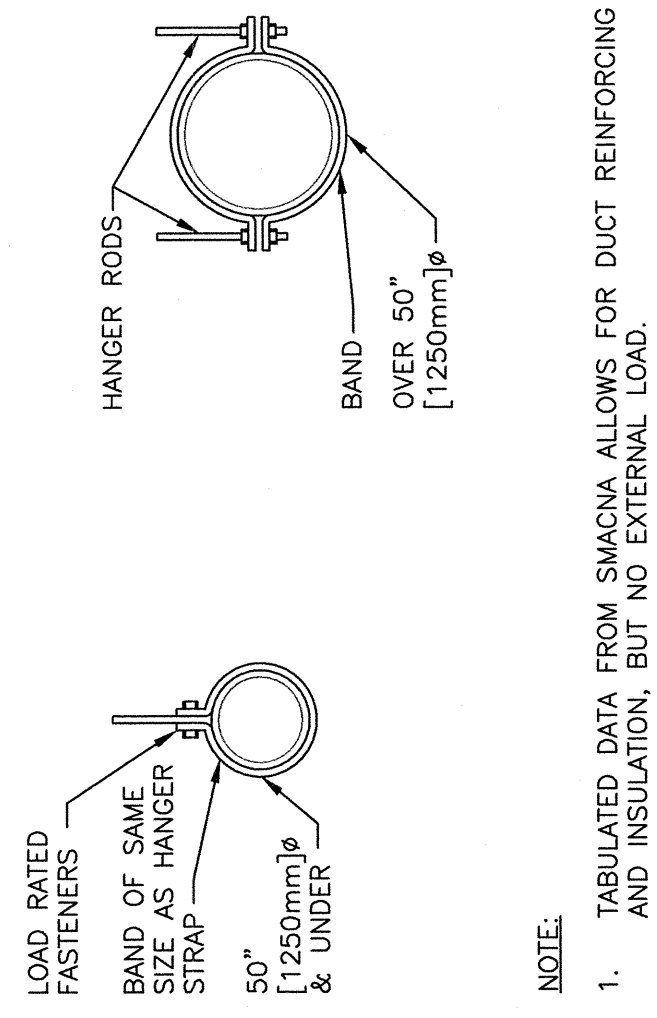
8 SUPPLY DUCTWORK TAKE-OFFS

SCALE NTS



NOTES:

1. THE SUPPLY REGISTER TAKE-OFF MAY BE USED FOR UP TO 25% OF THE MAIN DUCT CFW ANYTIME DUCT UP TO 40% WHEN THE MAIN DUCT VELOCITY IS 1000 FPM (5.1 M/S) OR LESS. THE AIR SPLIT DUCT TAKE-OFF SHALL BE USED IN ALL OTHER CASES AND MAY BE USED AT ANYTIME.

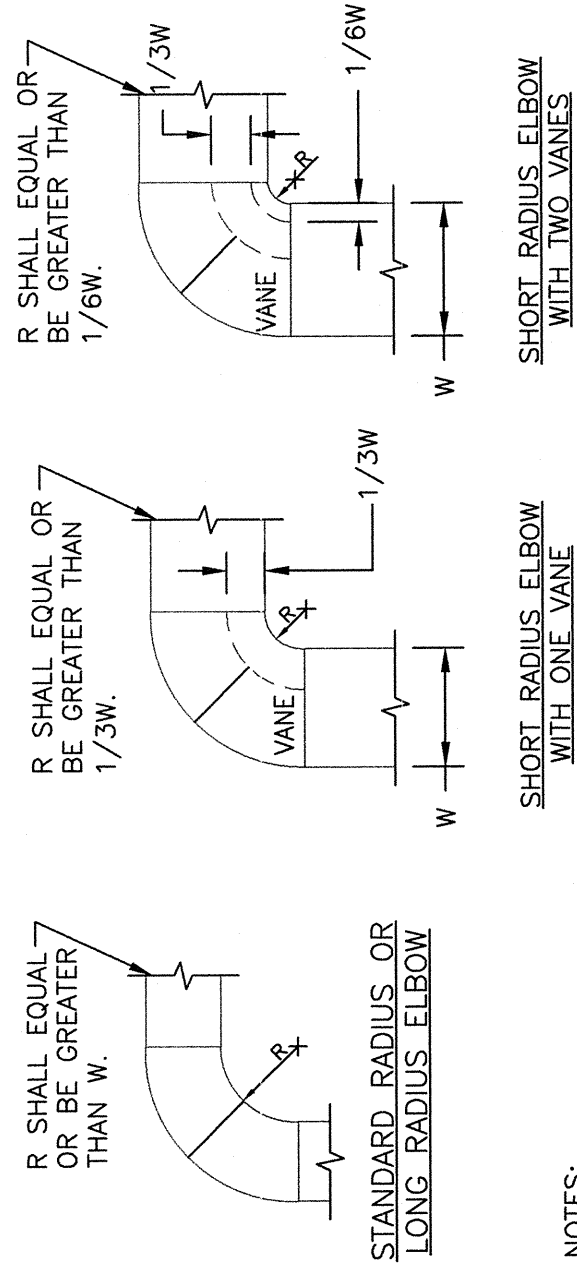


- NOTE:
1. INSULATED DATA FROM SMACNA ALONGS FOR DUCT REINFORCING AND INSULATION, BUT NO EXTERNAL LOAD.

HANGER STRAPS OR RODS			
MAX. DUCT IN. [mm]	QUANTITY/SIZE	MAX. LOAD LBS. [kg]	MAX. SPACING IN. [mm]
26 [650]	ONE 1 [25] x 22 GA STRAP	260 [119]	144 [3600]
36 [900]	ONE 1 [25] x 18 GA STRAP	420 [190]	144 [3600]
50 [1250]	ONE 1 [25] x 16 GA STRAP	700 [317]	144 [3600]
60 [1500]	TWO 3/8 [10] RODS	1200 [598]	144 [3600]
84 [2100]	TWO 1/2 [13]φ RODS	2500 [1133]	144 [3600]

4 ROUND DUCT HANGERS

SCALE NTS

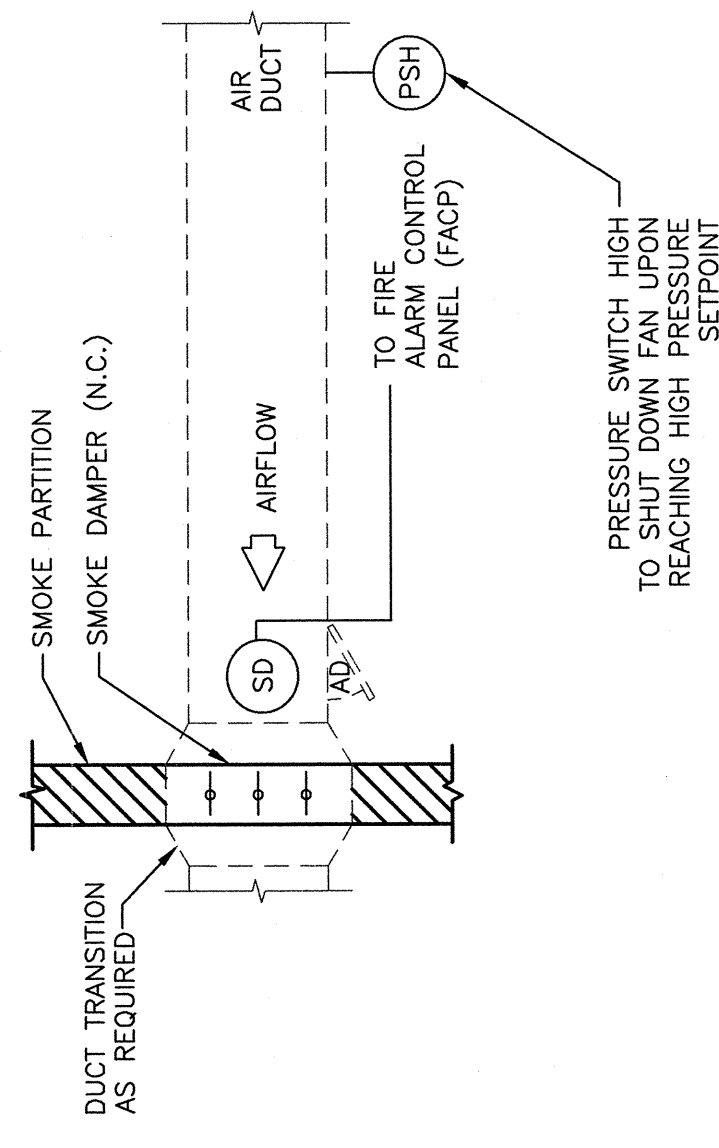


NOTES:

1. ALL VANE ELBOW SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA.
2. WHEN W1 DOES NOT EQUAL W2, VANE SHALL BE SINGLE THICKNESS VANE TYPE REGARDLESS OF W DIMENSION.
3. ALL SINGLE THICKNESS VANES SHALL HAVE A 2" [50mm] RADIUS, 1 1/8" [40mm] MINIMUM SPACE BETWEEN VANES AND A 1/4" [20mm] TRAILING EDGE.
4. WHEN W1 EQUALS W2 AND W1 IS GREATER THAN 20" [500mm] VANES SHALL BE DOUBLE VANE TYPE.

10 DUCTWORK SQUARE VANE ELBOWS

SCALE NTS



- NOTE:
- UPON DETECTION OF SMOKE BY THE SMOKE DETECTOR, THE SMOKE DAMPER SHALL CLOSE.

13 EXHAUST OR RETURN BRANCH DUCTWORK

SCALE NTS

14 SMOKE DAMPER CONTROL DIAGRAM

SCALE NTS

REVISIONS	DATE

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EXPIRATION DATE 12/31/11

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XREF FILE NAME: 531-319_XA_30X42TLBK.DWG

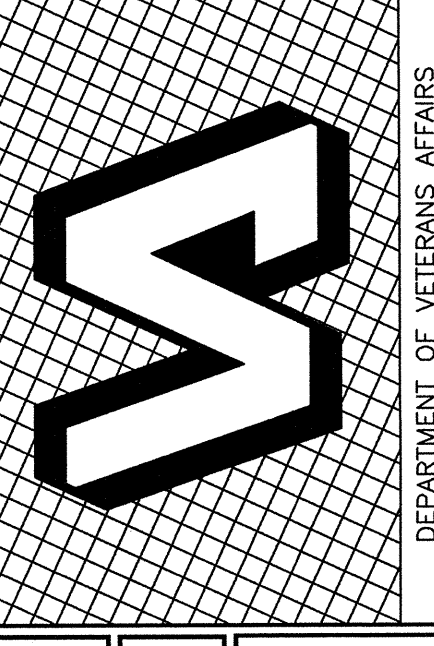
DRAWING TITLE
HVAC DETAILS

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE
APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE
BOISE VAMC
NEW EXTENDED CARE UNIT
BUILDING 'A' CLC

BUILDING NUMBER: 121
CHECKED: SCH
DRAWN: RME

DATE: 12/01/2011
PROJECT NO: 531-319
DRAWING NO: AM3.2
DWG: 33 OF 58



REVISIONS	
	DATE

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CAD FILE NAME:
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XREF FILE NAME:
531-319_XA_30X42TLBK.DWG

DRAWING TITLE
CHILLED WATER
HYDRONIC
SCHEMATIC

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE
BOISE VAMC
NEW EXTENDED CARE UNIT
BUILDING 'A' CLC

PROJECT NO.
531-319

DRAWING NO.
AM3.4

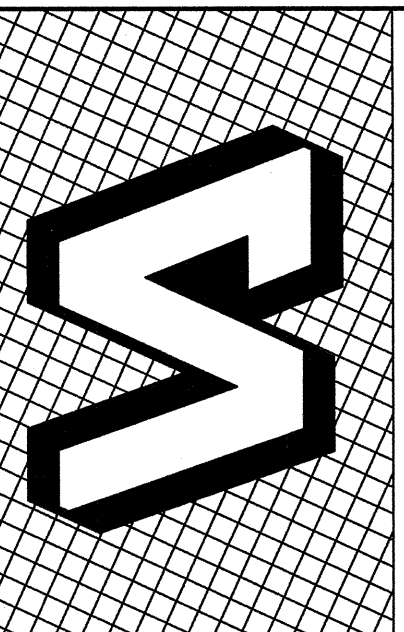
DATE
12/01/2011

PROJECT NO.
531-319

DRAWING NO.
AM3.4

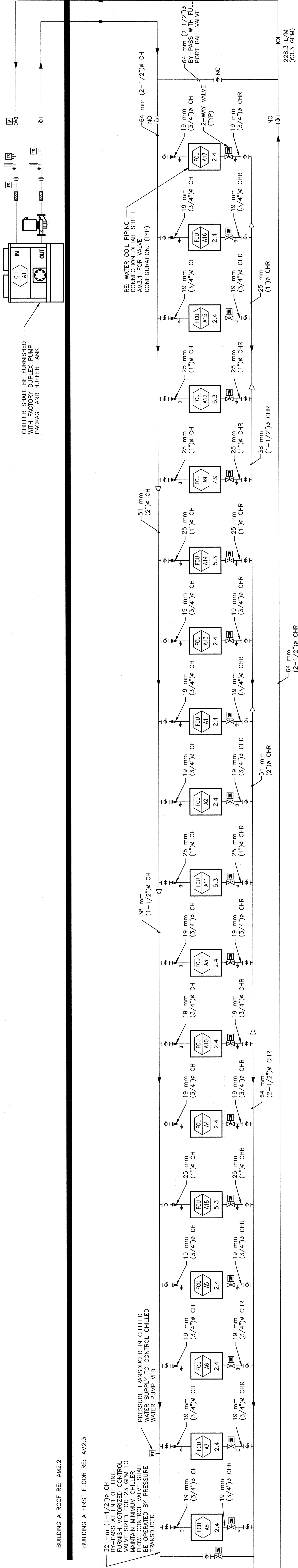
LOCATION
VAMC BOISE, IDAHO

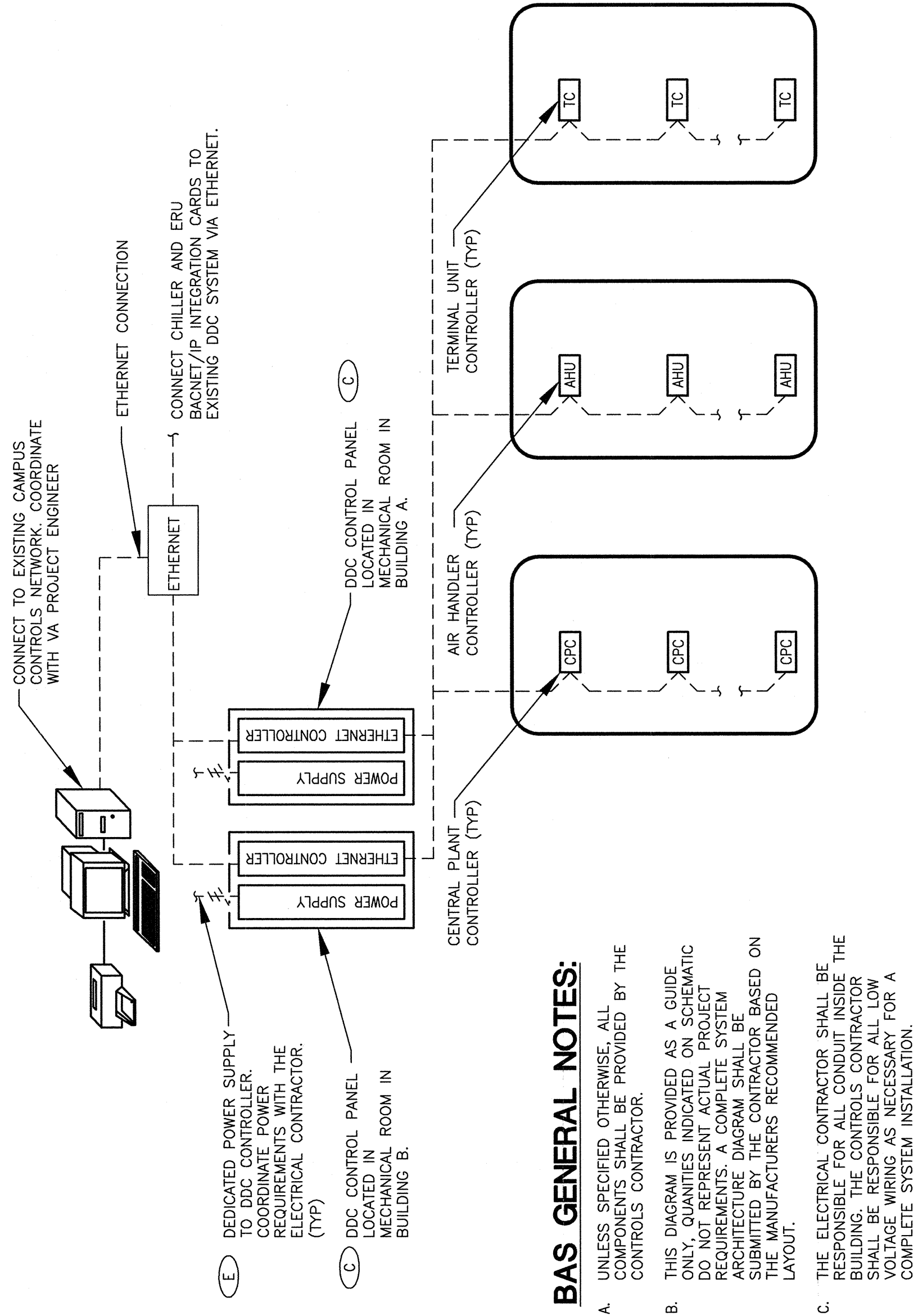
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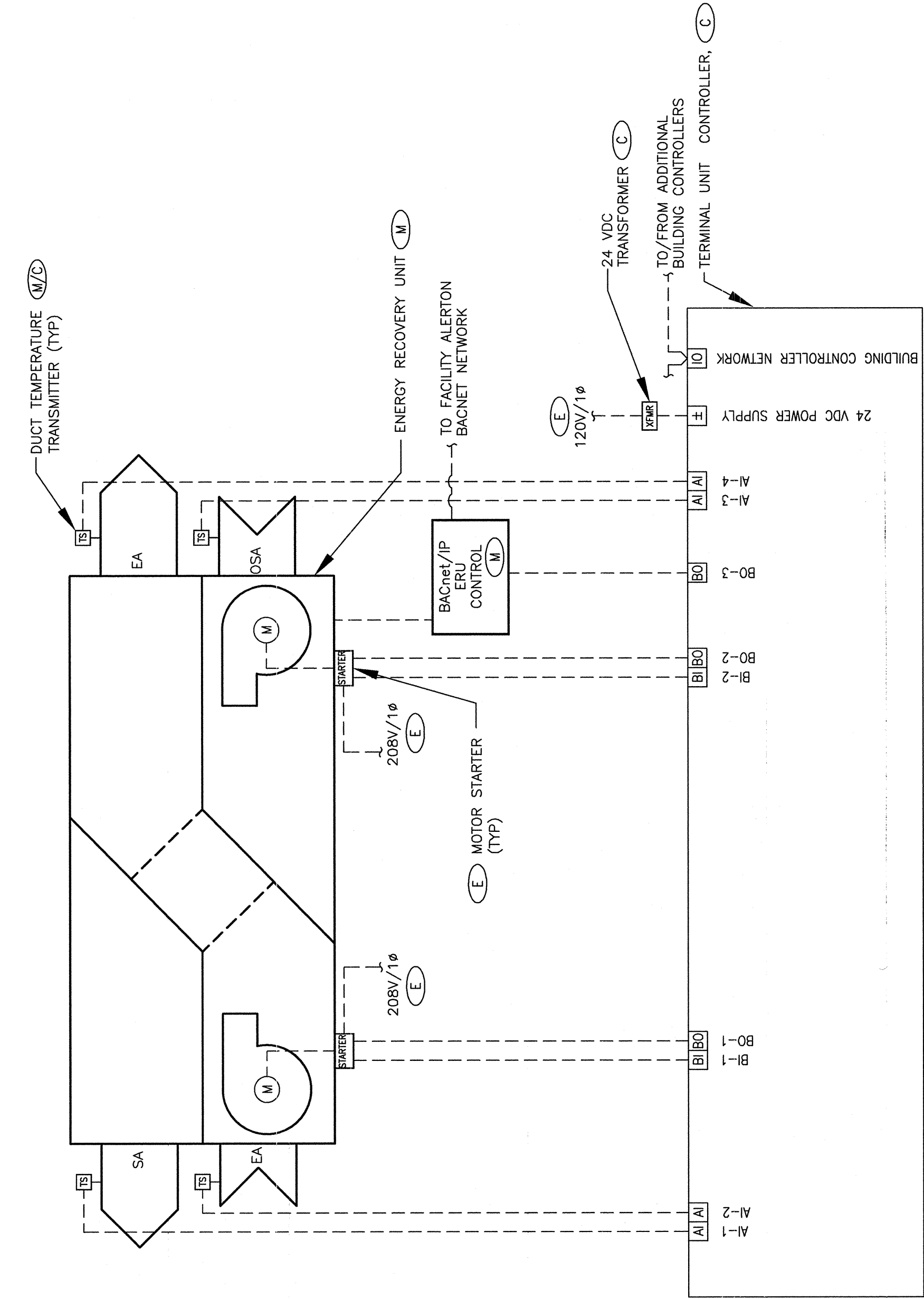
1CHILLED WATER HYDRONIC SCHEMATIC

SCALE: NTS





1 BUILDING AUTOMATIC SYSTEM ARCHITECTURE DIAGRAM



JOB: 531-319 BUILDING: 121	POINT LEGEND	SYSTEM INPUTS		SYSTEM OUTPUTS		SYSTEM SOFTWARE/CONTROL APPLICATION/FUNCTION	PAGE:
		BINARY	ANALOG	BINARY	ANALOG		
SYSTEM: ENERGY RECOVERY UNIT	POINT ID	AB	AB	AB	AB	AB	REMARKS
	SA						
	EA						
	OSA						
	SA						
	EA						
	OSA						
	SA						
	EA						
	OSA						
	SA						
	EA						
SYSTEM COMPONENT:	SA						
	EA						
	OSA						
	SA						
	EA						
	OSA						
	SA						
	EA						
	OSA						
	SA						
	EA						
	OSA						

3 ENERGY RECOVERY UNIT CONTROL SCHEMATIC & POINTS LIST

REVISIONS

DATE

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PROFESSIONAL ENGINEER
STATE OF IDAHO
No. 1114

DRAWING TITLE
CONTROLS SCHEMATIC

PROJECT TITLE
BOISE VAMC
NEW EXTENDED CARE UNIT
BUILDING 'A' CLC

DATE
12/01/2011

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

APPROVED: MEDICAL CENTER DIRECTOR

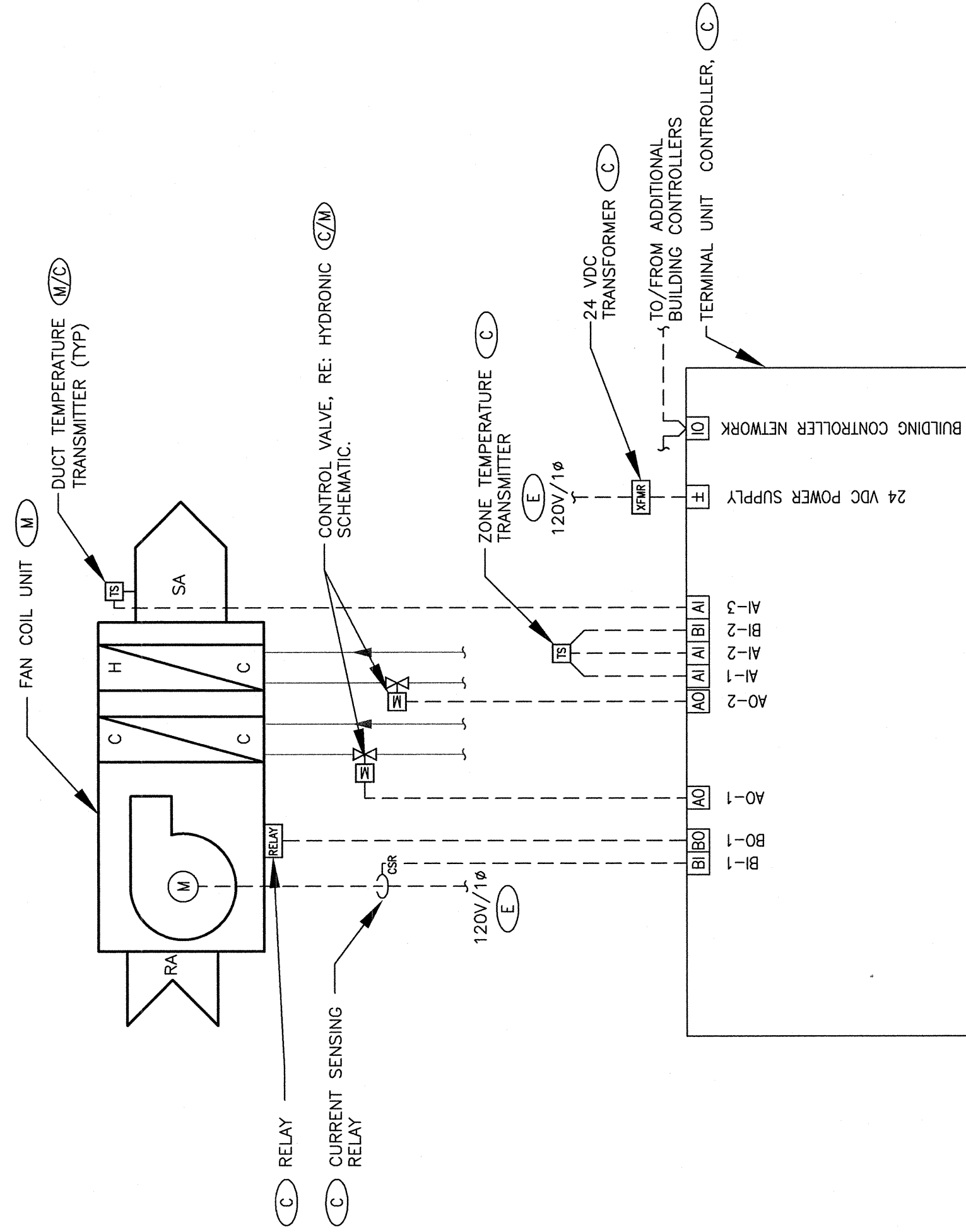
APPROVED: VAMC BOISE, IDAHO

BOISE VAMC
NEW EXTENDED CARE UNIT
BUILDING 'A' CLC

PROJECT NO.
531-319

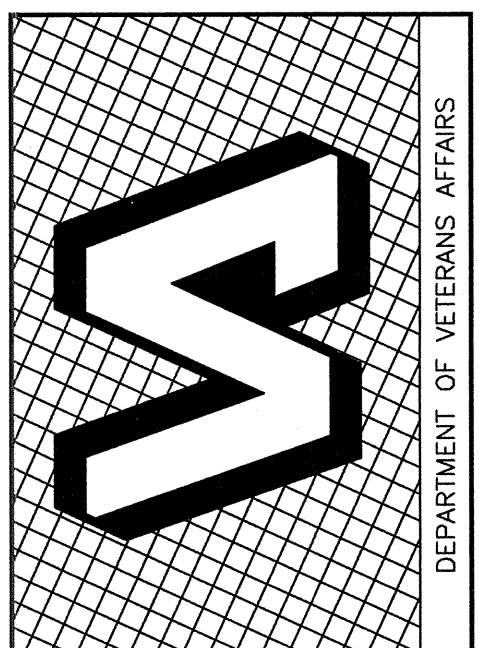
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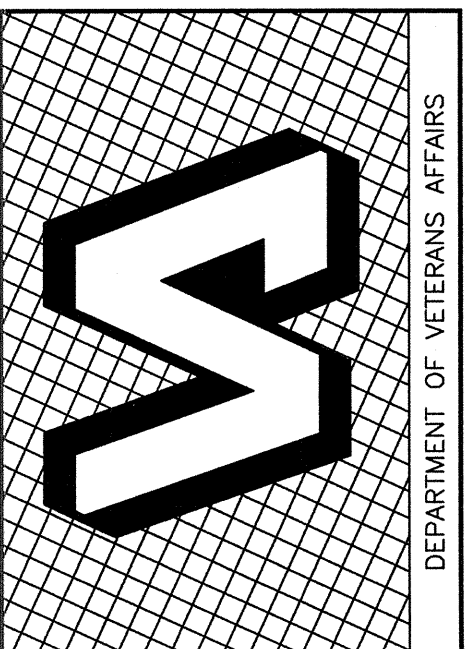
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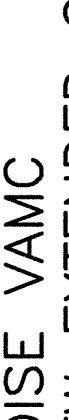
2 FAN COIL UNIT CONTROL SCHEMATIC & POINTS LIST

JOB: 531-319 BUILDING: 121	POINT LEGEND	SYSTEM INPUTS		SYSTEM OUTPUTS		SYSTEM SOFTWARE/CONTROL APPLICATION/FUNCTION	PAGE:
		BINARY	ANALOG	BINARY	ANALOG		
SYSTEM: FAN COIL	POINT ID	AB	AB	AB	AB	AB	REMARKS
	SA						
	EA						
	OSA						
	SA						
	EA						
	OSA						
	SA						
	EA						
	OSA						
	SA						
	EA						
SYSTEM COMPONENT:	SA						
	EA						
	OSA						
	SA						
	EA						
	OSA						
	SA						
	EA						
	OSA						
	SA						
	EA						
	OSA						





<div data-bbox="1923 1540 1942 1626">  </div> <div data-bbox="1923 1626 1942 2208"> <p>STEVEN HARDY, P.E. CHIEF ENGINEER C.W. MOORE PLAZA 250 S. 5TH ST. BOISE, IDAHO PHONE: 208-344-4635 FAX: 208-344-1658</p> </div>	<div data-bbox="1942 1540 2055 1626"> <p>THESE DRAWINGS AND SPECIFICATIONS ARE INSTRUMENTS OF SERVICE PREPARED BY OR FOR THE FIRM OF C.W. MOORE ENGINEERS, INC. (C.W. MOORE). THE FIRM OF C.W. MOORE ENGINEERS, INC. (C.W. MOORE) IS NOT RESPONSIBLE FOR THE CONSTRUCTION OF THE PROJECT OR THE QUALITY OF THE CONSTRUCTION. THE FIRM OF C.W. MOORE ENGINEERS, INC. (C.W. MOORE) IS NOT RESPONSIBLE FOR THE CONSTRUCTION OF THE PROJECT OR THE QUALITY OF THE CONSTRUCTION. THE FIRM OF C.W. MOORE ENGINEERS, INC. (C.W. MOORE) IS NOT RESPONSIBLE FOR THE CONSTRUCTION OF THE PROJECT OR THE QUALITY OF THE CONSTRUCTION.</p> </div> <div data-bbox="1942 1626 2055 2208"> <p>CSHQA C.W. MOORE PLAZA 250 S. 5TH ST. BOISE, IDAHO 83721 (208) 344-4635 FAX (208) 344-1658 http://www.cshqa.com</p> </div>
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			APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE		BUILDING NUMBER 121	
			APPROVED: MEDICAL CENTER DIRECTOR		CHECKED SCH	
			APPROVED:		DRAWN RME	
STAMP			LOCATION VAMC BOISE, IDAHO			

2 CHILLED WATER LOOP SYSTEM CONTROL SCHEMATIC & POINTS LIST

1 HEATING WATER LOOP SYSTEM CONTROL SCHEMATIC & POINTS LIST
SCALE: NTS