City of Aurora
Building Codes Division
15151 E Alameda Pkwy
Aurora, CO 80012
(303) 739-7420

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HVAC NOTES:

1. ALL SUPPLY AIR DIFFUSERS ARE 4-WAY AIR PATTERN UNLESS SHOWN OTHERWISE.
2. DUCT SIZE OF BRANCH DUCT TO AIR DEVICE SHALL BE THE SAME SIZE AS NECK SIZE OF AIR DEVICE UNLESS NOTED OTHERWISE.
3. ALL HEATING WATER SUPPLY AND RETURN BRANCH PIPING TO TERMINAL BOXES SHALL BE 3/4" UNLESS NOTED OTHERWISE. ALL PIPING TAKE-OFFS FROM MAINS SHALL BE BOTTOM TAKE-OFFS WITH SWING JOINTS.
4. BRANCH DUCT SIZE TO INLET OF ALL TERMINAL BOXES SHALL BE THE SAME SIZE AS THE INLET SCHEDULED UNLESS NOTED OTHERWISE.
5. ALL MEDIUM PRESSURE AND ROUND LOW PRESSURE SUPPLY AIR DUCTWORK SHALL BE EXTERNALLY WRAPPED TO THICKNESS AS STATED IN SPECIFICATIONS. RETURN AND EXHAUST DUCTWORK IS NEITHER LINED NOR WRAPPED. (UNLESS NOTED OTHERWISE)

GENERAL NOTES:

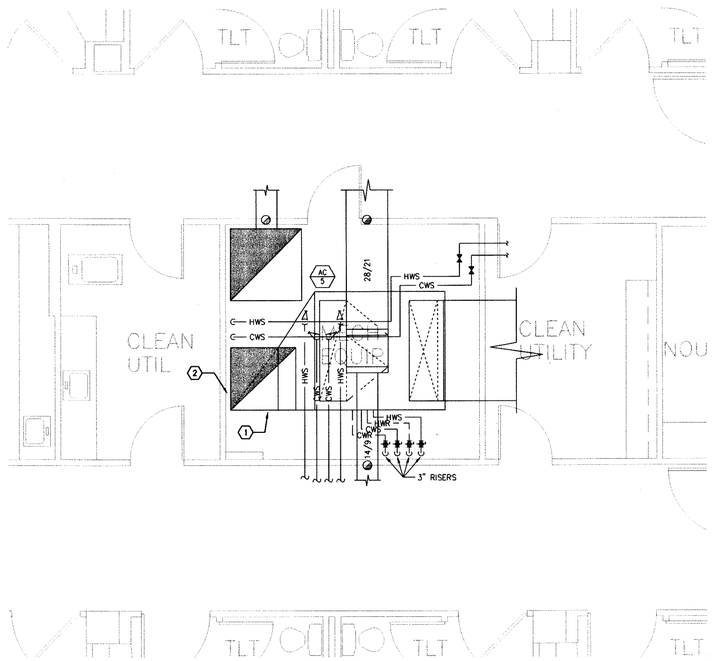
1. A DETAILED M.O.P. IS REQUIRED WHEN A CONSTRUCTION ACTIVITY AFFECTS THE SAFETY OF THE OCCUPANTS, VALUABLE CONTENTS OR ANY SYSTEM WHICH SUPPORTS THESE SYSTEMS, OR ESSENTIALLY AFFECTS THE BUILDING MANAGEMENT, OPERATIONS OR SECURITY.
2. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF ANY WORK.
3. COORDINATE WORK WITH ALL TRADES.
4. CONTRACTOR IS RESPONSIBLE FOR SECURING AND WEATHERPROOFING ANY ROOF OPENING NOT COMPLETED DURING WORKING HOURS.
5. COORDINATE ALL DUCTWORK AND PIPING WITH EQUIPMENT, STRUCTURE, ETC.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR DEACTIVATION OF ROOF-MOUNTED EQUIPMENT AND ASSOCIATED INDOOR EQUIPMENT. ONLY ONE UNIT SHALL BE TAKEN OUT OF SERVICE AT ANY ITEM, WITH REMAINDER OF UNITS LEFT OPERATIONAL. COORDINATE WITH GENERAL CONTRACTOR AND ELECTRICAL CONTRACTOR.
7. CONTRACTOR SHALL NOT SHUT DOWN / TAKE OUT OF SERVICE ANY SYSTEMS WITHOUT FIRST COORDINATING WITH OWNER AND PREPARING M.O.P.

DEMOLITION KEY NOTES:

1. REMOVE DUCTWORK TO ACCOMMODATE NEW DUCT HEATING COIL, HC-1. REFER TO LEGENDS AND DETAILS SHEET.
2. REMOVE EXISTING O/A INTAKE HOOD LOCATED ON ROOF.

KEY NOTES:

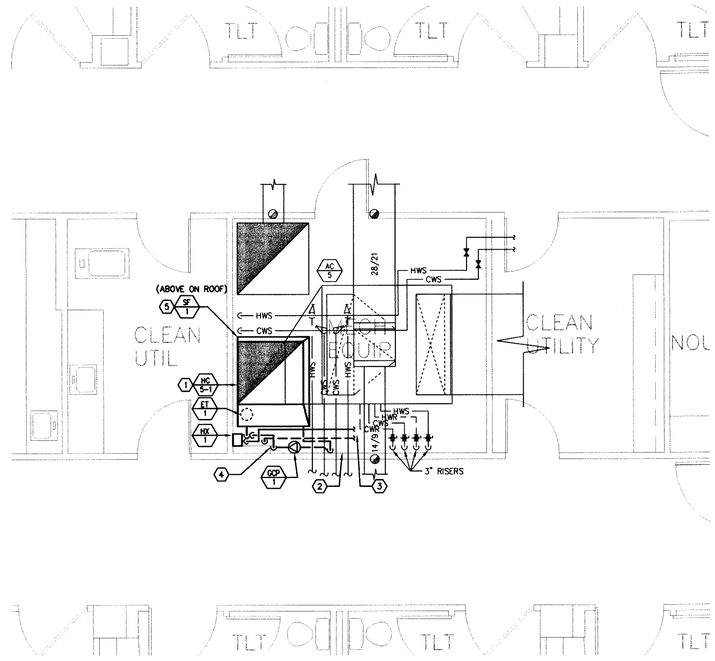
1. PROVIDE TRANSITION FROM ROOF OPENING TO NEW DUCT HEATING COIL, HC-1, AND BACK TO EXISTING 40/30 DUCT BELOW.
2. PROVIDE COUPON RACK AND CHEMICAL POT FEEDER. REFER TO DETAILS.
3. PROVIDE 2" HWS/HWR AND HOT TAPS WITH ISOLATION VALVES INTO EXISTING 3" HWS/HWR RISERS.
4. PROVIDE 2" GLYCOL HWS/HWR LOOP TO DUCT HEATING COIL, HC-1.
5. PROVIDE NEW ROOF CURB FOR FILTERED SUPPLY FAN, SF-1. REUSE EXISTING 40/42 OPENING IN ROOF. ROOF WORK BY OTHERS.



5TH FLOOR MECHANICAL ROOM DEMO PLAN

SCALE: 1/4"=1'-0"

AURORA BUILDING DEPARTMENT
MECHANICAL
APPROVED
SUBJECT TO CORRECTIONS AS INDICATED
AND FIELD INSPECTIONS.
SIGNED Richard A. Scott DATE 12-23-02



5TH FLOOR MECHANICAL ROOM PLAN

SCALE: 1/4"=1'-0"

Davis Partnership Architects

2301 BLAKE STREET, SUITE #100
DENVER, COLORADO 80205-2108
303.861.8555 F.303.861.3027

0137 MAIN STREET, UNIT C106
POST OFFICE BOX 2711
EDWARDS, COLORADO 81632
970.926.8960 F.970.926.8961

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100% CDs	11/6/02	

REGISTERED COLORADO PROFESSIONAL ENGINEER 11-13-02

MEDICAL CENTER OF AURORA

1501 SOUTH POTOMAC
AURORA, COLORADO 80012

5TH FLOOR MECHANICAL PLANS

DATE	NOVEMBER 6, 2002
DRAWN BY	LKL
CHK'D BY	AI
SHEET FILE	P-HNV5

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SHEET NUMBER:

M6.0

D.P.A. PROJECT # 0260100

Cator, Ruma & Assoc. FILENAME:P:\CRA (OTHER)\2002\C02-035 AMCS LOBBY REMODEL\MECH\P-HVN5.DWG _ Layout1 PLOT: 12/18/2002 @ 5:33pm REV: 11/06/2002 CAD: ALANR XREF: tb.dwg HVN5.dwg bg5.dwg

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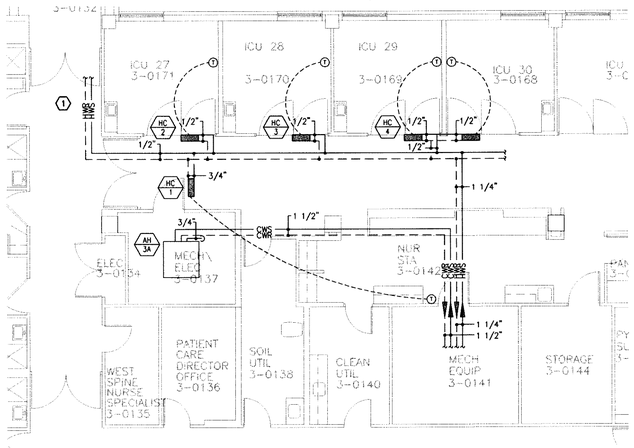
DEMOLITION KEY NOTES:

(1) REMOVE EXISTING 18/10 DUCTWORK TO ACCOMMODATE NEW HEATING COIL.

KEY NOTES:

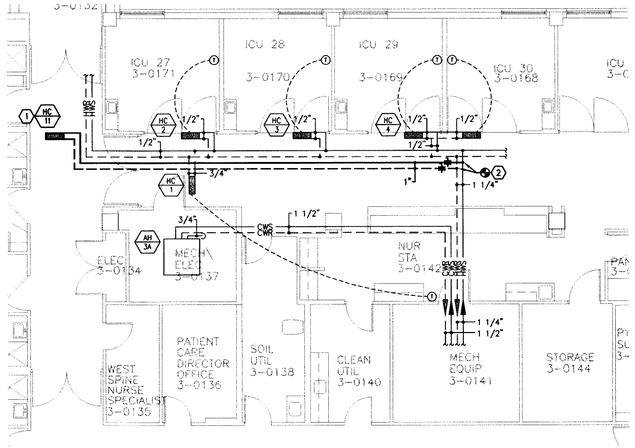
(1) PROVIDE TRANSITIONS TO NEW HEATING COIL, HC-11.

(2) PROVIDE 1" HWS.HWR TO NEW HEATING COIL, HC-11 AND ISOLATION VALVES NEAR NEW TAPS. COORDINATE SHUT DOWN WITH OWNER.



PARTIAL 3RD FLOOR HVAC PIPING DEMO PLAN

SCALE: 1/8"=1'-0"



PARTIAL 3RD FLOOR HVAC PIPING PLAN

SCALE: 1/8"=1'-0"

AURORA BUILDING DEPARTMENT
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AND FIELD INSPECTIONS.

Richard La Cotti 12-23-02
SIGNED DATE

Davis Partnership Architects

2301 BLAKE STREET, SUITE #100
DENVER, COLORADO 80205-2108
303.861.8555 F.303.861.3027

0137 MAIN STREET, UNIT C106
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COLORADO REGISTERED PROFESSIONAL ENGINEER
PAUL CHRISTOPHER
12/19/02

MEDICAL CENTER OF AURORA

1501 SOUTH POTOMAC
AURORA, COLORADO 80012

3RD FLOOR
HVAC PIPING PLANS

DATE	NOVEMBER 6, 2002
DRAWN BY	PC
CHK'D BY	AI
SHEET FILE	P-HNV3

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D.P.A. PROJECT # 0260100

Color, Ruma & Assoc. FILENAME:P:\GRA (OTHER)\2002\C02-035 AMCS LOBBY REMODEL\MECH\P-HVN3.DWG _ Layout1 PLOT: 12/18/2002 @ 5:32pm REV: 12/18/2002 CAD: ALANR XREF: tb.dwg hvn3.dwg bg3.dwg

PUMP SCHEDULE

DESIG.	MFR.	MODEL	PUMP TYPE	SERVICE	MAX. OPER. TEMP. °F	GPM	TOTAL DYNAMIC HEAD (FT.)	EFF. %	MIN. HP	RPM	CONTROL	REMARKS
GCP-1	BELL & GOSSETT	SERIES 60 1-1/4x1-1/4x5-1/4	INLINE	GLYCOL COIL	225	46	18	58	0.5	1750	NOTE 1	NOTE 2

NOTES:
1. PROVIDE A TEMPERATURE TRANSMITTER AS A CONTROL POINT FOR PUMP TO POWER ON AT 30°F SETPOINT (ADJUSTABLE). TIE IN CONTROL POINT TO EXISTING BAS.
2. BASED ON 40% PROPYLENE GLYCOL SOLUTION.

S540-1

FAN SCHEDULE

DESIG.	MFR.	MODEL	FAN TYPE	SERVICE	CFM AT 5280'	S.P. IN. W.C. AT S.L.	APPROX. RPM	MIN. HP	VIBRATION ISOLATOR TYPE	DRIVE TYPE	DAMPER TYPE	APPROX. THROAT DIM.	CONTROL	REMARKS
SF-1	GREENHECK	LSF-27-50	CENTRIFUGAL	SUPPLY	16,000	0.55	955	5.0	NEOPRENE PAD	BELT	N/A	40/30	LOCAL DISCONNECT	

S850-1

PLATE AND FRAME HEAT EXCHANGER SCHEDULE

DESIG.	MFR.	MODEL	HEAT TRANSFER AREA	NO. PLATES	HOT SIDE EWT °F	HOT SIDE LWT °F	HOT SIDE GPM	HOT SIDE Δ P PSI	ENCLOSURE EWT °F	ENCLOSURE LWT °F	ENCLOSURE GPM	ENCLOSURE Δ P PSI	MBH	OPER. WEIGHT (LBS.)	REMARKS
HX-1	ALFA LAVAL	CB 76-50H T09	51.7	50	190	160	59	3.6	180	140	46	2.7	855	90	NOTE 1

NOTES:
1. CAPACITY BASED ON 40% PROPYLENE GLYCOL SOLUTION.

S755-1

EXPANSION TANK SCHEDULE

DESIGNATION	MANUFACTURER	MODEL	CAPACITY ACCEPT. VOL.	CAPACITY TANK VOL.	SERVICE	PRE-CHARGE PRESSURE (PSIG)	OPER. WEIGHT (LBS)	REMARKS
ET-1	EXTROL	30	1.0	1.2	GLYCOL HEATING	12	10	

S120-1

DUCT HEATING COIL (HOT WATER)

DESIG.	MFR.	MODEL	SYSTEM LOCATION	INSIDE COIL DIMENSIONS	CFM AT 5280'	MBH	EAT DEG. F	LAT DEG. F	WATER Δ P FT. W.C.	GPM	AIR Δ P FT. W.C.	CONTROL	REMARKS
HC-5-1	TEMTROL	5WC-4-48x60x2-10-AL	5TH FLR MECH RM	48x60	16,000	885	-10	55	8.3	59	0.42	NOTE 1	NOTE 3
HC-11	TEMTROL	4WC-12-30x14x2-8-AL	3RD FLR CORRIDOR	30x14	1,200	88	6	55	1.3	6	0.07	NOTE 2	NOTE 4,5
HC-1	McQUAY	-	3RD FLOOR	21x9	750	20.3	55	95	.1	2.0	.1		
HC-2	McQUAY	-	3RD FLOOR	12x9	400	11.1	55	95	.1	1.1	.1		
HC-3	McQUAY	-	3RD FLOOR	12x9	400	11.1	55	95	.1	1.1	.1		
HC-4	McQUAY	-	3RD FLOOR	12x9	400	11.1	55	95	.1	1.1	.1		
HC-5	McQUAY	-	3RD FLOOR	12x9	400	11.1	55	95	.1	1.1	.1		
HC-6	McQUAY	-	3RD FLOOR	12x9	400	11.1	55	95	.1	1.1	.1		
HC-7	McQUAY	-	3RD FLOOR	12x6	185	5.3	55	95	.1	0.5	.1		
HC-8	McQUAY	-	3RD FLOOR	12x9	400	11.1	55	95	.1	1.1	.1		
HC-9	McQUAY	-	3RD FLOOR	12x9	400	11.1	55	95	.1	1.1	.1		
HC-10	McQUAY	-	3RD FLOOR	15x9	475	13.5	55	95	.1	1.3	.1		

NOTES:
1. COIL WILL BE PIPED WITH GLYCOL COIL PUMP, GCP-1.
2. PROVIDE TWO-WAY CONTROL VALVE AND FREEZESTAT. INTERLOCK FREEZESTAT WITH OA DAMPER. SEND ALARM TO BAS ON FREEZESTAT ACTIVATION. TWO WAY CONTROL VALVE TO BE CONTROLLED BY BAS.
3. CAPACITY BASED ON 40% PROPYLENE GLYCOL SOLUTION.
4. SERVES OUTSIDE AIR DUCT TO AH-3A.
5. CONTRACTOR TO FIELD VERIFY PRIOR TO ORDERING COIL.

S830-8

AURORA BUILDING DEPARTMENT
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AND FIELD INSPECTIONS.
SIGNED
DATE 12-23-02

NOTE: VERIFY PIPING CONNECTIONS WITH HEAT EXCHANGER MANUFACTURER.

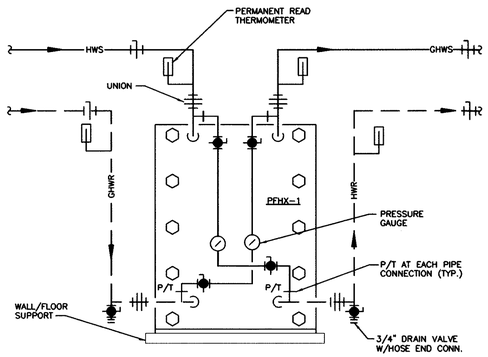
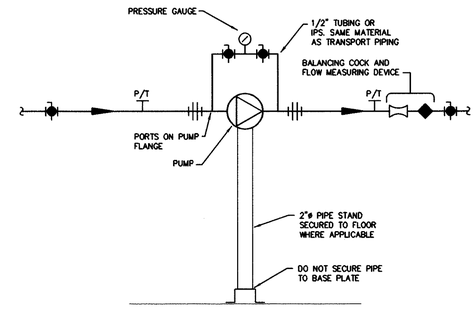


PLATE AND FRAME HEAT EXCHANGER PIPING DETAIL

SCALE: NONE

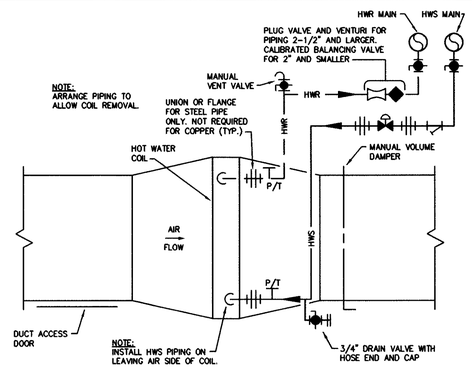
845-1



IN-LINE PUMP PIPING DETAIL

SCALE: NONE

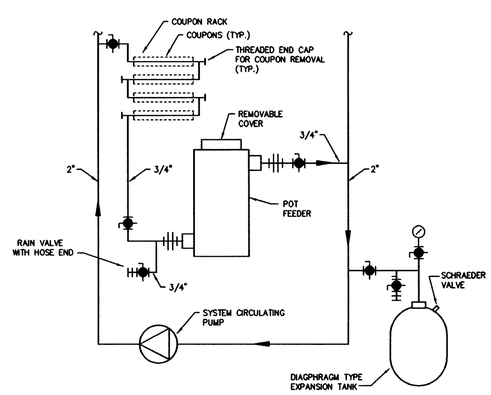
540-1



3RD FLOOR DUCT HEATING COIL INSTALLATION DETAIL

SCALE: NONE

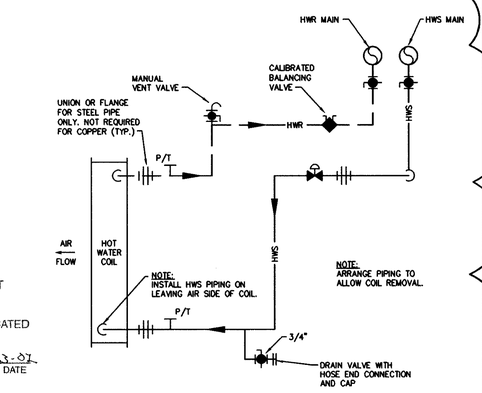
830-41



CHEMICAL POT FEEDER DETAIL

SCALE: NONE

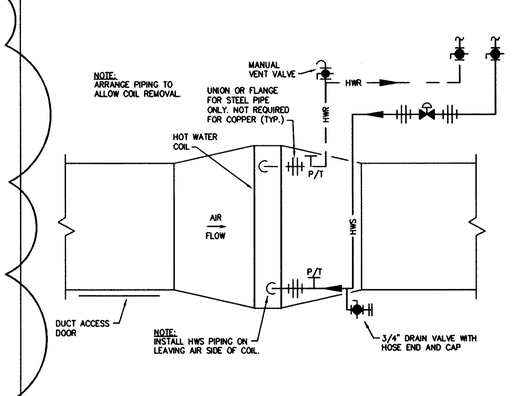
510-1



VAV HOT WATER COIL PIPING DETAIL

SCALE: NONE

830-42



5TH FLR DUCT HEATING COIL INSTALLATION DETAIL

SCALE: NONE

830-41

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2301 BLAKE STREET, SUITE #100
DENVER, COLORADO 80205-2108
303.861.8555 F.303.861.3027

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POST OFFICE BOX 2711
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COLORADO REGISTERED 33841 PROFESSIONAL ENGINEER 12-19-02

MEDICAL CENTER OF AURORA

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SCHEDULES & DETAILS

DATE	NOVEMBER 6, 2002
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Calor, Rumo & Assoc. FILENAME:P:\CRA (OTHER)\2002\C02-035 AMCS LOBBY REMODEL\MECH\P-MD1.DWG _ Layout1 PLOT: 12/18/2002 @ 5:31pm REV: 12/12/2002 CAD: ALANR XREF: tb.dwg

HVAC LEGEND

(Not all symbols listed below are used on these drawings)

ABBR.	SYMBOL	DESCRIPTION	ABBR.	SYMBOL	DESCRIPTION
HWS	—— HWS ——	HEATING WATER SUPPLY			SUPPLY DUCT UP / SUPPLY DUCT DOWN
HWR	—— HWR ——	HEATING WATER RETURN PIPING			RETURN/EXHAUST DUCT UP / RETURN/EXHAUST DUCT DOWN
HTWS	—— HTWS ——	HIGH TEMPERATURE HOT WATER SUPPLY			ROUND DUCT UP / ROUND DUCT DOWN
HTWR	—— HTWR ——	HIGH TEMPERATURE HOT WATER RETURN	48F12		INDICATES FLAT OVAL DUCTWORK
CWS	—— CWS ——	CHILLED WATER SUPPLY PIPING			FLEXIBLE DUCT CONNECTION
CWR	—— CWR ——	CHILLED WATER RETURN PIPING	BDD		BACKDRAFT DAMPER
D	—— D ——	COOLING COIL DRAIN PAN PIPING	TCD		TEMP. CONTROL DAMPER-OPPOSED BLADE
C	—— C ——	CONDENSER WATER SUPPLY PIPING	TCD		TEMP. CONTROL DAMPER-PARALLEL BLADE
CR	—— CR ——	CONDENSER WATER RETURN PIPING			LOUVER WITH SCREEN
LPS	—— LPS ——	LOW PRESSURE STEAM SUPPLY PIPING (0–15#)	MVD		MANUAL VOLUME DAMPER
LPC	—— LPC ——	LOW PRESSURE CONDENSATE RETURN PIPING			MOTOR OPERATED DAMPER
MPS	—— MPS ——	MEDIUM PRESSURE STEAM SUPPLY PIPING (16#–60#)			SPIN-IN FITTING WITH MVD
MPC	—— MPC ——	MEDIUM PRESSURE CONDENSATE RETURN PIPING	FD		DUCT FIRE DAMPER
HPS	—— HPS ——	HIGH PRESSURE STEAM SUPPLY PIPING (61#–125#)	FSD		COMBINATION DUCT SMOKE & FIRE DAMPER
HPC	—— HPC ——	HIGH PRESSURE CONDENSATE RETURN PIPING	SD		DUCT SMOKE DAMPER
PC	—— PC ——	PUMPED CONDENSATE PIPING			DUCT SMOKE DETECTOR
BBD	—— BBD ——	BOILER BLOWDOWN PIPING	DAD		DUCT ACCESS DOOR
BF	—— BF ——	BOILER FEED WATER PIPING			TURNING VANES IN DUCT ELBOW
RL	—— RL ——	REFRIGERANT LIQUID PIPING			
RS	—— RS ——	REFRIGERANT SUCTION PIPING	EP		ELECTRIC-PNEUMATIC CONTROL VALVE
RHG	—— RHG ——	REFRIGERANT HOT GAS PIPING	PE		PNEUMATIC-ELECTRIC CONTROL SWITCH
					TEMPERATURE SENSOR
TT	TT	THERMOSTATIC STEAM TRAP		T	WALL MOUNTED THERMOSTAT
FAT	FAT	FLOAT AND THERMOSTATIC STEAM TRAP			UNIT MOUNTED THERMOSTAT
IBT	IBT	INVERTED BUCKET STEAM TRAP		H	HUMIDISTAT
TCV		(2 OR 3-WAY) TEMPERATURE CONTROL VALVE			UNDERCUT DOOR
		VENTURI METER			LOUVER
		CALIBRATED BALANCING VALVE		R	DUCT RISE
RSV		REFRIGERANT SERVICE VALVE		D	DUCT DROP
DPS		DIFFERENTIAL PRESSURE SWITCH	A.L.		ACOUSTICALLY LINED DUCTWORK
MAV		MANUAL AIR VENT	TCOAD		TEMPERATURE CONTROL OUTSIDE AIR DAMPER
AAV		AUTOMATIC AIR VENT	TCRAD		TEMPERATURE CONTROL RETURN AIR DAMPER
FS		FLOW SWITCH	TCEAD		TEMPERATURE CONTROL EXHAUST AIR DAMPER
EJ		EXPANSION JOINT	SP IN WC		STATIC PRESSURE IN INCHES WATER COLUMN
BJ		BALL JOINT EXPANSION COMPENSATOR	SD		SUPPLY AIR DEVICE
	CWS,CWR,HWS,HWR / CHW,HHW	SUPPLY & RETURN BRANCH PIPING TO TERMINAL UNIT	RG		RETURN/EXHAUST AIR DEVICE

DOUBLE/SINGLE LINE DUCT LEGEND

(Not all symbols listed below are used on these drawings)

SINGLE LINE	DOUBLE LINE	SINGLE LINE	DOUBLE LINE	SINGLE LINE	DOUBLE LINE	SINGLE LINE	DOUBLE LINE
45° TEE (ROUND)		90° TEE (RECTANGULAR) (SEE DUCT TAKE-OFF DETAIL)		FLEX DUCT (RIGID / FLEX)		90° RADIUS ELB	
45° TEE (RECTANGULAR)		90° TEE (ROUND) (CONICAL TEE)		MANUAL VOLUME DAMPER		90° ELB	
DUCT SPLIT		SPIN IN (VOLUME DAMPER)		REDUCER		45° ELB	

FIRE/SMOKE AND SMOKE DAMPER SCHEDULE

PLAN DESIG.	MFR.	MODEL	DUCT DAMPER CONNECTION SIZE W/H (IN.)	CFM AT 5300'	MAX Δ P IN W.C. AT S.L.	CONTROLLING FIRE ALARM DEVICE (NOTE 1)	FAN SHUT-DOWN UPON CLOSURE? (Y/N) (NOTE 2)	END SWITCHES (Y/N)	REMARKS
FSD-A	RUSKIN	FSD60	SEE PLANS	SEE PLANS	0.10	AREA DETECTION	Y	N	
FSD-B	RUSKIN	FSDR25	SEE PLANS	SEE PLANS	0.10	AREA DETECTION	Y	N	

NOTES:

1. SEE ELECTRICAL DRAWINGS FOR LOCATION OF FIRE ALARM DEVICE.
2. INDICATES THAT FAN IS DE-ENERGIZED WHENEVER DAMPER IS CLOSED.

N.I.C.

S910-1

TERMINAL BOX SCHEDULE

DESIG.	MFR.	MODEL (HIGH RANGE)	INLET DIA. (IN.)	MAX. PRIMARY CFM AT 5280'	MAX. HEATING CFM AT 5280'	MIN. PRIMARY CFM AT 5280'	MIN. INLET S.P. IN W.C. AT S.L.	HEATING COIL DATA: EAT °F	LAT °F	MBH	GPM	WATER Δ P FT. W.C.	EWT °F	CONTROL	REMARKS
713	--	--	--	1040	--	620	0.75	55	100	30.7	2.0	5.0	180	T'STAT	NOTE 1
713	--	--	--	830	--	620	0.75	55	100	30.7	2.0	5.0	180	T'STAT	NOTE 2
714	--	--	--	550	--	330	0.75	55	100	16.3	1.1	5.0	180	T'STAT	NOTE 1
714	--	--	--	560	--	330	0.75	55	100	16.3	1.1	5.0	180	T'STAT	NOTE 2
715	--	--	--	360	--	220	0.75	55	100	10.9	0.7	5.0	180	T'STAT	NOTE 1
715	--	--	--	320	--	220	0.75	55	100	10.9	0.7	5.0	180	T'STAT	NOTE 2

NOTES:

1. ORIGINAL DESIGN CONDITIONS.
2. NEW DESIGN CONDITIONS.

S833-2

GENERAL LEGEND

(Not all symbols listed below are used on these drawings)

ABBR.	SYMBOL	DESCRIPTION	ABBR.	SYMBOL	DESCRIPTION
	X / X-X	SECTION DESIGNATION			CAP END OF PIPE
		SECTION DRAWN ON THIS SHEET		XX	PITCH DOWN IN DIRECTION OF ARROW
		SECTION CUT ON THIS SHEET			PIPE ANCHOR
	X / M-X	RISER DIAGRAM NUMBER / SHEET RISER IS DRAWN ON			PIPE ALIGNMENT GUIDE
	UNIT #	EQUIPMENT UNIT IDENTIFICATION / EQUIPMENT UNIT NUMBER			UNION OR FLANGE
					CONCENTRIC PIPE REDUCER
	X / NECK CFM	DIFFUSER IDENTIFICATION / DIFFUSER NECK DIAMETER / DIFFUSER CFM			ECCENTRIC PIPE REDUCER
			PRV		PRESSURE REDUCING VALVE
			PTRV		PRESSURE AND/OR TEMPERATURE RELIEF VALVE
(E)		EXISTING			PLUG VALVE
(N)		NEW	GV		GATE VALVE
(R)		RELOCATED			VERTICAL PIPE VALVE
(F)		FUTURE	GLV		GLOBE VALVE
		POINT OF CONNECTION, NEW TO EXISTING	BFV		BUTTERFLY VALVE
		DIRECTION OF FLOW IN PIPE	BV		BALL VALVE
		DUCTWORK, PIPING AND EQUIPMENT TO BE REMOVED	CV		CHECK VALVE
DIA	Ø	DIAMETER			SOLENOID VALVE
WAD		WALL ACCESS DOOR			BUTTERFLY SOLENOID VALVE
NIC		NOT IN CONTRACT			HOSE END DRAIN VALVE
AFF		ABOVE FINISHED FLOOR	P/T	T P	PRESSURE/TEMPERATURE TAP
GC		GENERAL CONTRACTOR			STRAINER
MC		MECHANICAL CONTRACTOR			STRAINER W/ BLOWDOWN
EC		ELECTRICAL CONTRACTOR			FLEXIBLE PIPE CONNECTOR
TCC		TEMPERATURE CONTROL CONTRACTOR			THERMOMETER
KEC		KITCHEN EQUIPMENT CONTRACTOR			PRESSURE GAUGE
C		COMMON			SIGHT GLASS
NC		NORMALLY CLOSED	C.A.P.		CEILING ACCESS PANEL
NO		NORMALLY OPEN			PUMP
			TB		THRUST BLOCK

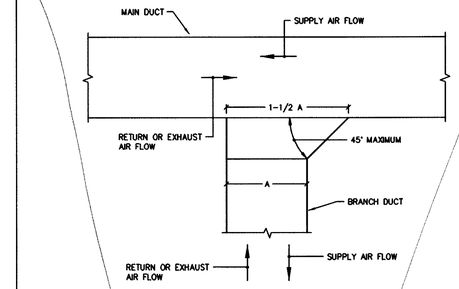
PLUMBING LEGEND

(Not all symbols listed below are used on these drawings)

ABBR.	SYMBOL	DESCRIPTION	ABBR.	SYMBOL	DESCRIPTION
CW	—— — ——	DOMESTIC COLD WATER PIPING	SCO		SURFACE CLEANOUT
HW	—— - ——	DOMESTIC HOT WATER PIPING	FCO		FLOOR CLEANOUT
HWC	—— - - ——	DOMESTIC HOT WATER CIRC. PIPING	WCO		WALL CLEANOUT
C-SW	—— - —SW—	SOFTENED DOMESTIC COLD WATER PIPING	COT		CLEANOUT TEE
H-SW	—— - - —SW—	SOFTENED DOMESTIC HOT WATER PIPING	LCO		LINE CLEANOUT
140° HW	—— - - 140° ——	DOMESTIC HOT WATER PIPING @ TEMPERATURE SHOWN			FIXTURE OR DRAIN P-TRAP
V	----------	VENT PIPING	AD		AREA DRAIN
AV	—— AV ——	ACID RESISTANT VENT PIPING	FD		FLOOR DRAIN (ROUND GRATE)
W	—— W ——	WASTE PIPING (ABOVE FLOOR IN BUILDING)	FS		FLOOR SINK (SQUARE GRATE)
W	—— W ——	WASTE PIPING (BELOW FLOOR IN BUILDING)	RD/OD		ROOF DRAIN OR OVERFLOW DRAIN
AW	—— AW ——	ACID RESISTANT WASTE PIPING (ABOVE FLOOR IN BUILDING)			GAS PRESSURE REDUCING VALVE
AW	—— AW ——	ACID RESISTANT WASTE PIPING (BELOW FLOOR IN BUILDING)	VB		ATMOSPHERIC VACUUM BREAKER
OD	—— OD ——	GREASE DRAIN (WASTE LINE TO GREASE INTERCEPTOR)	RPBFP		REDUCED PRESSURE BACKFLOW PREVENTER
IW	—— IW ——	INDIRECT WASTE PIPING	BFP		DOUBLE CHECK BACKFLOW PREVENTER
S	—— S ——	SANITARY SEWER PIPING (OUTSIDE BUILDING)	SA		SHOCK ARRESTOR W/ISOLATION VALVE
ST	—— ST ——	STORM SEWER PIPING (BELOW GRADE OUTSIDE BUILDING)	GC		GAS SHUT-OFF VALVE
SSD	—— SSD ——	SUB-SURFACE DRAIN PIPING			STOP AND DRAIN VALVE
SD	—— SD ——	STORM DRAIN PIPING (ABOVE FLOOR IN BUILDING)	WH		WALL HYDRANT
SD	—— SD ——	STORM DRAIN PIPING (BELOW FLOOR IN BUILDING)	HB		HOSE BIBB
OD	—— OD ——	OVERFLOW DRAIN PIPING (ABOVE FLOOR IN BUILDING)	YH		YARD HYDRANT
OD	—— OD ——	OVERFLOW DRAIN PIPING (BELOW FLOOR IN BUILDING)	MH		MANHOLE
A	—— A ——	COMPRESSED AIR	CI		CAST IRON
G	—— G ——	NATURAL GAS PIPING	VCP		VITRIFIED CLAY PIPE
			CB		CATCH BASIN
			VTR		VENT THRU ROOF
			IE		INVERT ELEVATION
			PVC		POLYVINYL CHLORIDE

AURORA BUILDING DEPARTMENT
MECHANICAL
APPROVED
SUBJECT TO CORRECTIONS AS INDICATED
AND FIELD INSPECTIONS.

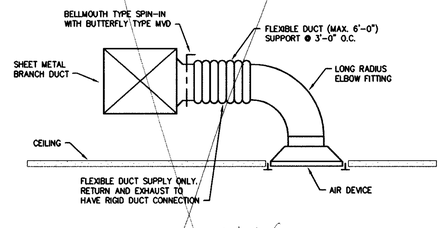
SIGNED _____ DATE 12-23-02



DUCT TAKE-OFF DETAIL

SCALE: NONE

910-2



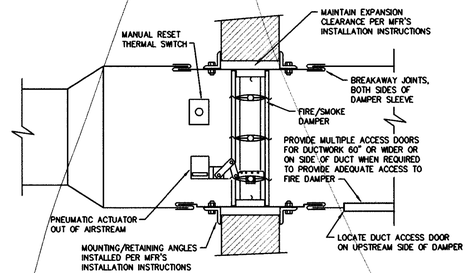
N.I.C.

NOTE:
CEILING DIFFUSER SHOWN, EXHAUST AND RETURN REGISTERS AND GRILLES SIMILAR.

AIR DEVICE DETAIL

SCALE: NONE

932-12



NOTES:

1. INSTALL ASSEMBLY IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
2. PROVIDE AND INSTALL ADDITIONAL STEEL MULLIONS FOR MULTIPLE FIRE/SMOKE DAMPER ASSEMBLIES.
3. PROVIDE APPROPRIATE DUCT TRANSITIONS BETWEEN SCHEDULED DAMPER SIZE AND INDICATED DUCT SIZE.
4. PROVIDE RED IDENTIFICATION PAINT ON EXTERIOR OF DAMPER ASSEMBLY.

FIRE/SMOKE DAMPER INSTALLATION DETAIL

SCALE: NONE

910-11

Davis Partnership Architects

2301 BLAKE STREET, SUITE #100
DENVER, COLORADO 80205-2108
303.861.8555 F.303.861.3027

0137 MAIN STREET, UNIT C106
POST OFFICE BOX 2711
EDWARDS, COLORADO 81632
970.926.8960 F.970.926.8961

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100% CDs	11/6/02	
REVISION 1	12/12/02	1

COLORADO REGISTERED PROFESSIONAL ENGINEER — GREGORY PAUL — 12/18-02

MEDICAL CENTER OF AURORA

1501 SOUTH POTOMAC
AURORA, COLORADO 80012

LEGENDS SCHEDULES & DETAILS

DATE	NOVEMBER 6, 2002
DRAWN BY	GP
CHK'D BY	AI
SHEET FILE	P-ML1

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