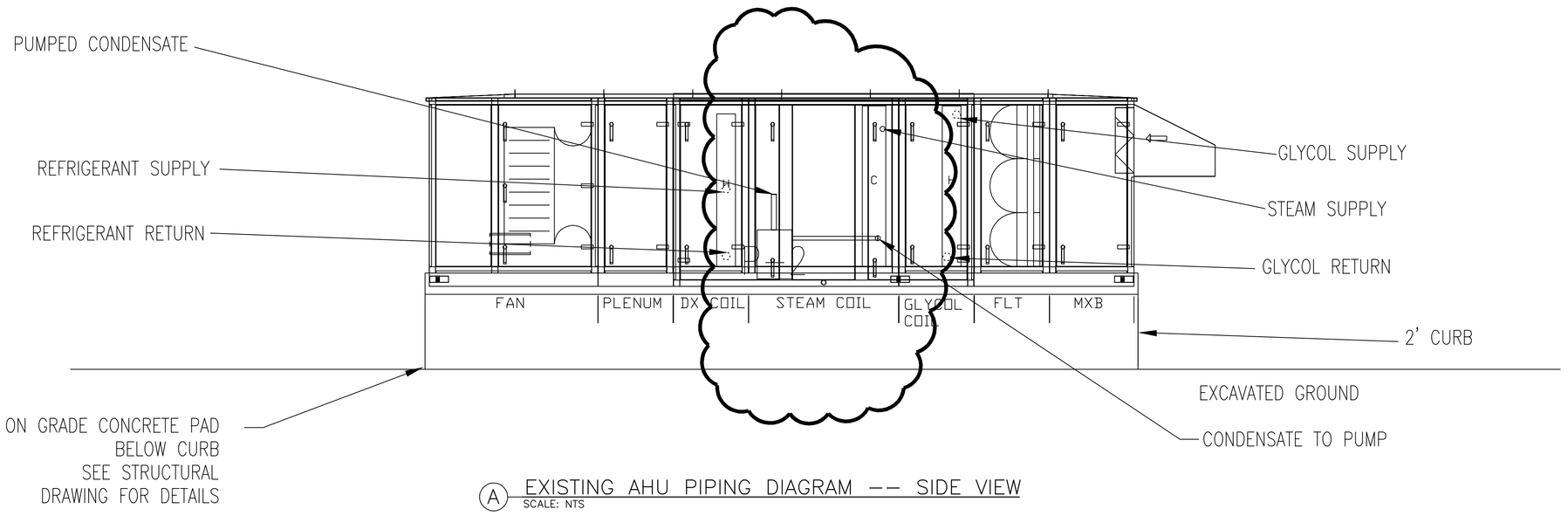
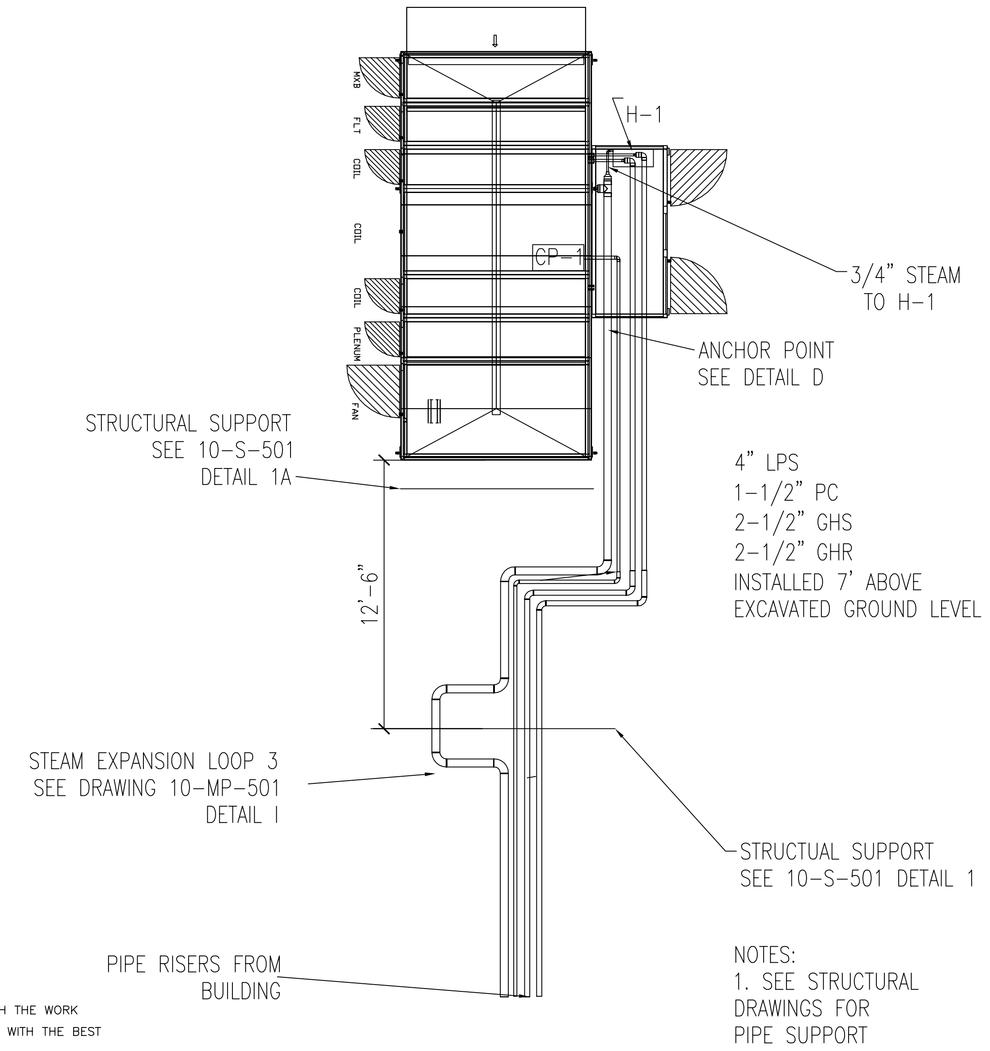


A EXISTING AHU PIPING DIAGRAM -- SIDE VIEW
SCALE: NTS



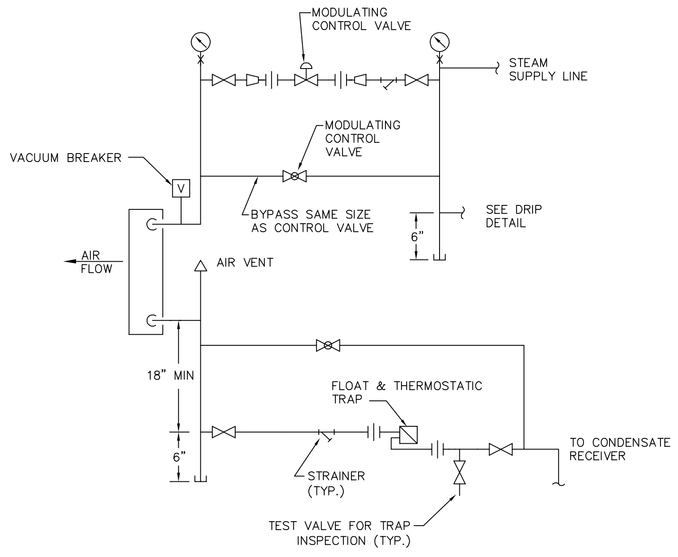
B EXISTING AHU PIPING DIAGRAM -- PLAN VIEW
SCALE: NTS

COIL REPLACEMENT SCOPE OF WORK:

1. REFER TO ADDITIONAL REQUIREMENTS INCLUDED IN GENERAL NOTES AND SPECIFICATIONS.
2. ALL WORK MUST BE PERFORMED IN A MANOR THAT COMPLIES WITH THE EXISTING EQUIPMENT WARRANTEES. COORDINATE WITH MANUFACTURERS.
3. DISCONNECT AND REMOVE THE TWO EXISTING STEAM COILS FROM THE AIR HANDLING UNIT AHU-1 SERVING THE B10 LAUNDRY.
4. DISCONNECT AND REMOVE THE EXISTING LOW PRESSURE STEAM AND CONDENSATE COIL CONNECTION PIPING AND INSULATION FROM AHU-1.
5. RE-PIPE THE VENT LINE FROM THE EXISTING CONDENSATE RECEIVER, LOCATED WITHIN THE AHU-1 PIPING VESTIBULE, TO THE EXTERIOR. SEAL ALL PENETRATIONS IN THE VESTIBULE ENVELOPE.
6. CLEAN THE INTERIOR OF THE PIPING VESTIBULE.
7. PROVIDE AND INSTALL TWO NEW REPLACEMENT STEAM COILS INTO AHU-1. COILS SHALL MATCH EXISTING (SEE SCHEDULE AND DESCRIPTION ON THIS SHEET) AND SHALL MAINTAIN ALL MANUFACTURER WARRANTEES.
8. PROVIDE A NEW STEAM CONTROL VALVE FOR EACH COIL SUPPLY.
9. PROVIDE AND INSTALL NEW STEAM SUPPLY AND CONDENSATE RETURN PIPING TO/FROM REPLACEMENT COILS. FOLLOW PIPING DETAIL 'C' ON THIS SHEET. INCLUDE ALL REQUIRED VALVES, TRAPS, ETC...
10. INSULATE ALL STEAM AND CONDENSATE PIPING WITHIN AHU-1 PIPING VESTIBULE.
11. PROVIDE MANUAL FREEZESTAT AND ASSOCIATED PROGRAMMING. SEE DRAWING 10-MH-801.
12. PROVIDE ALL TESTING, BALANCING AND OWNER TRAINING AS DESCRIBED WITHIN SPECIFICATIONS.

GENERAL NOTES

1. THESE PLANS ARE DIAGRAMMATIC AND INDICATE ONLY THE SIZE AND GENERAL ARRANGEMENT OF PIPING/DUCTWORK AND EQUIPMENT. EXACT LOCATION OF ALL ELEMENTS SHALL BE DETERMINED AS WORK PROGRESSES, IN COOPERATION AND COORDINATION WITH THE WORK OF ALL TRADES. THEY ARE NOT INTENDED TO SHOW EVERY ITEM OF WORK OR MINOR PIECE OF EQUIPMENT. CONTRACTOR SHALL FURNISH AND INSTALL WITHOUT ADDITIONAL REMUNERATION ANY COMPONENT NECESSARY TO COMPLETE THE SYSTEM IN ACCORDANCE WITH THE BEST PRACTICE OF THE TRADE.
2. ITEMS OF WORK OR EQUIPMENT SHOWN ON THE DRAWINGS ONLY, OR CALLED FOR IN THE SPECIFICATIONS ONLY, SHALL BE FURNISHED AND INSTALLED IN THE SAME MANNER AS IF THEY APPEARED ON BOTH THE DRAWINGS AND THE SPECIFICATIONS.
3. DRAWINGS DO NOT INDICATE ALL OFFSETS, CHANGES IN ELEVATION, ETC. WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL MAKE SUCH CHANGES IN PIPING/DUCTWORK AND LOCATION OF EQUIPMENT, ETC. TO ACCOMMODATE WORK, OBSTACLES, AND WORK OF OTHER CONTRACTORS.
4. INSTALL EQUIPMENT AND PIPING/DUCTWORK TO AVOID INTERFERENCE WITH THE OPERATION, SERVICE, AND MAINTENANCE OF EQUIPMENT.
5. ALL PHYSICAL ATTRIBUTES OF EQUIPMENT AND DEVICES ARE BASED ON THOSE MANUFACTURERS LISTED IN THE SPECIFICATIONS AND/OR THE EQUIPMENT SCHEDULES. THE RESPECTIVE CONTRACTORS ARE RESPONSIBLE FOR ALL CHANGES BROUGHT ABOUT BY USE OF ITEMS BY OTHER MANUFACTURERS. THE ARCHITECT/ENGINEER HAS RESERVED THE RIGHT TO REJECT ITEMS BY OTHER MANUFACTURERS IF THOSE ITEMS DO NOT MATCH THE PHYSICAL ATTRIBUTES OF THE MANUFACTURERS LISTED.
6. REFER TO DETAIL DRAWINGS FOR EQUIPMENT CONNECTIONS.

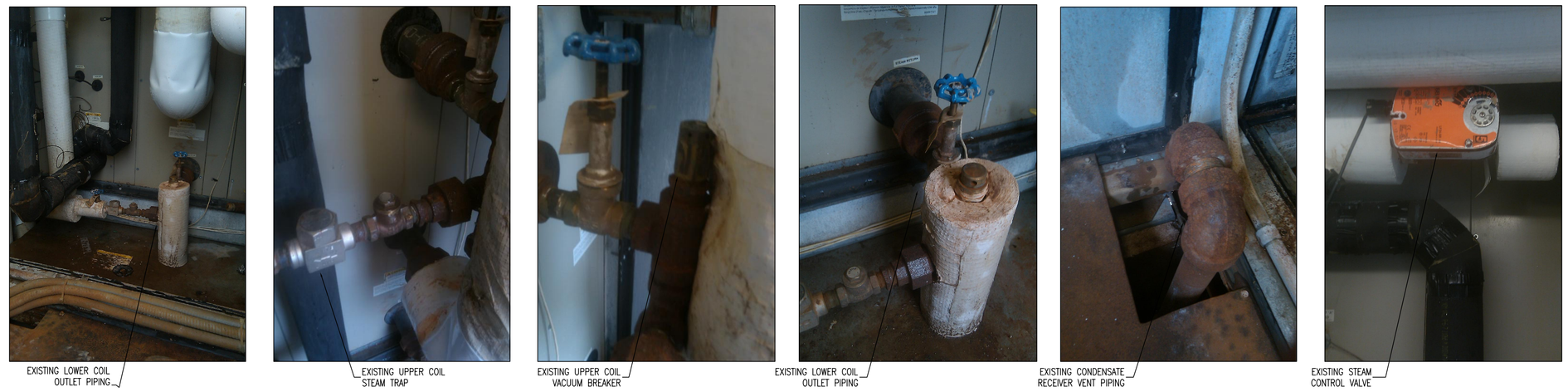


NOTES:

1. EACH TRAP TO HAVE CAPACITY OF TWO TIMES COIL CAPACITY AT 1/2 PSIG INLET PRESSURE.
2. VACUUM BREAKER SHALL RESPOND TO PRESSURE DIFFERENCE OF NO MORE THAN 3"W.G.
3. ADDITIONAL COILS TO BE PIPED IN SAME MANNER AS COIL SHOWN.

C STEAM COIL (LPS) UNITS
SCALE: N.T.S.

4 STEAM COIL(16 ins)					SECTION 2
Coil model	5JA0801C		Number of coils	2	
Capacity	1392981	Btu/h	Number of rows	1	
			Fins per inch	8	
Air volume	15000	cfm			
Entering db	0.0	F	Steam pressure	15.00	psi
Leaving db	84.9	F	Condensate load	1473.00	lb/hr
Finned height x length	30 x 90	ins			
Face area	37.50	ft2			
Face velocity	400	ft/m			
Coil air pressure drop	0.10	ins WC	Piping vestibule	30	ins
Connection type	Threaded		Fin material	Aluminum (.0075)	
Connection Qty x size	2 x 2.000	ins	Tube material	Copper (.020)	
Connection location	Opp drive side		Header material	Copper	
Connection material	Carbon steel		Case material	Galvanized track	
			Drip pan	None	
	-		Drip pan side	-	
			Turbospirals	No	
Coil code	5JA0801C		Electro-fin coat	None	



D EXISTING INSTALLATION IMAGES
SCALE: N.T.S.

EXISTING AIR HANDLING UNIT SCHEDULE

TAG	DESIGNATION	LOCATION	MINIMUM OA CFM	SUPPLY FAN						FILTERS		COOLING COIL					COMPRESSOR		HOT WATER COIL								STEAM COIL					ELECTRIC	OPERATING WEIGHT	MANUFACTURER		
				CFM	TYPE	ESP	TSP	HP	V/PH/HZ	TYPE	RATING	REFRIGERANT TYPE	SENSIBLE MBH	TOTAL MBH	EAT DB/WB	LAT DB/WB	NUMBER	Kw	MBH	EAT	LAT	EWT	LWT	GPM	WPD	MBH	EAT	LAT	LBS/HR	STEAM PRESSURE	VOLTS-PH-HERTZ		NAME	MODEL	REMARKS
AHU-1	B-10 LAUNDRY	EXTERIOR	15,000	15,000	PLUG	1.5	5.4	20	208/3/60	BAG/ CARTRIDGE	MERV 8/ MERV 13	R-410A	530	816	91/73	58.60/56.96	0	0	0	0	17	45	35	61	8	1,287	0	80	1,361	15	230-3-60	8,397	MoQUAY	***	1-10

*** McQUAY MODEL-DAH055GDDC
MODULAR COMFORT SYSTEMS
5860 BELLE ISLE ROAD
SYRACUSE, NY 13209
(315) 484-9048

REMARKS:
1 100% OUTSIDE AIR UNIT
2 PROVIDE SEALED AND GASKETED ACCESS DOORS FOR COIL, FILER AND FAN SECTIONS.
3 SUPPLY WITH OPPOSED BLADE DAMPER SECTIONS FOR OUTSIDE AIR.
4 DOUBLE WALL UNITS.
5 PROVIDE COIL PIPING ENCLOSURE.
6 CONSTANT VOLUME UNIT OPERATION.
7 PROVIDE CONTROL SYSTEM BY AUTOMATED LOGIC CORP
8 PROVIDE AIR COOLED CONDENSING UNIT TO MATCH COOLING PERFORMANCE
9 PROVIDE 24" CURB
10 PROVIDE PIPE ENCLOSURE 8'L X 3.5'W

ERDMAN ANTHONY
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Facsimile 585 427 8914
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NO.	DATE	DESCRIPTION
		REVISIONS

SHEET TITLE
AHU DIAGRAMS

BLDG. NO. 10
PROJECT TITLE
STEAM COIL REPLACEMENT FOR B-10 LAUNDRY

DRAWN AST | CHECKED MSJ | DATE 02/17/12

APPROVED CHIEF, ENGINEERING SERVICE

DRAWING NUMBER
10-MH-601

DWG. 2 OF 3

APPROVED DIRECTOR, VAMC, CANANDAIGUA

PROJECT NUMBER
VA-528-09-RP-0100

V.A. MEDICAL CENTER
LOCATION
CANANDAIGUA, NY 14424