

University of Rhode Island

Tootell Wrestling Room Cooling

Kingston Campus

Kingston, RI



www.uri.edu

JULY 18, 2014



HVAC • ELECTRICAL
• PLUMBING •
FIRE PROTECTION

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CEC# 20130039

DRAWING LIST

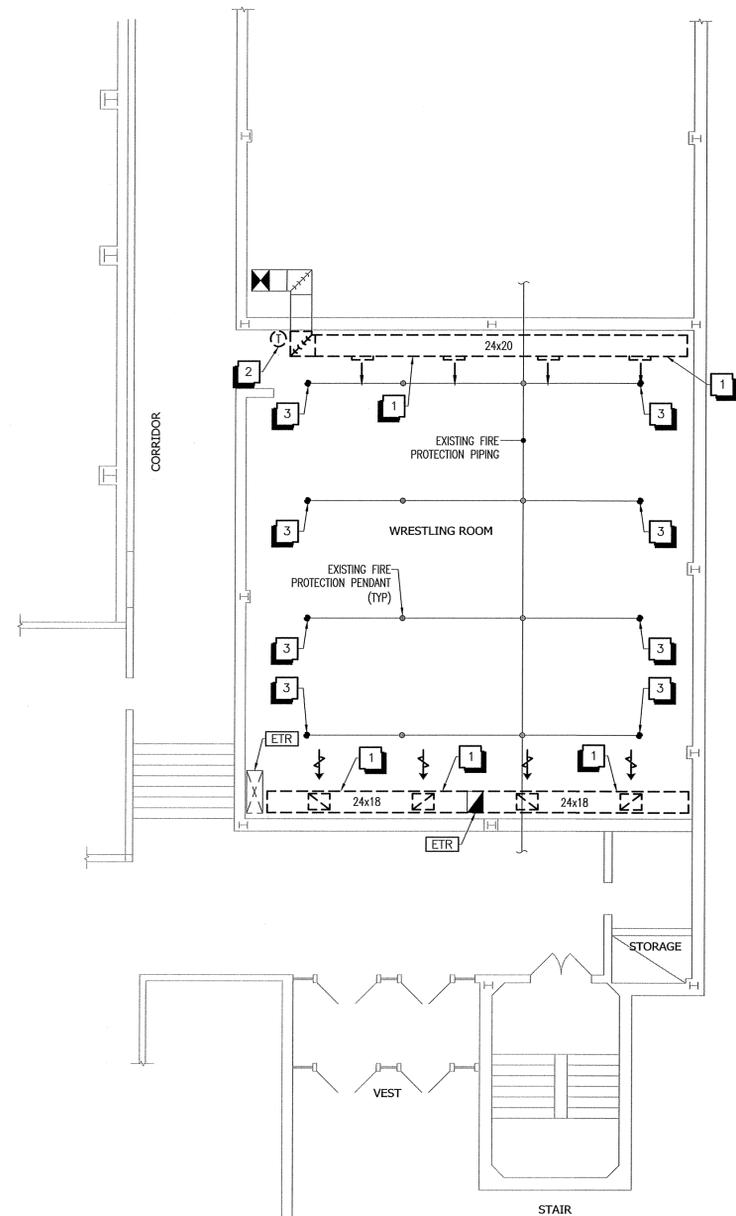
MD1.0 -DEMOLITION FLOOR PLANS- HVAC

M1.0 - RENOVATION FLOOR PLANS- HVAC

M2.0 MECHANICAL SCHEDULES AND DETAILS

M3.0 MECHANICAL SPECIFICATIONS

E1.0 ELECTRICAL FLOOR PLAN AND SPECIFICATIONS



PARTIAL THIRD FLOOR DEMOLITION PLAN - HVAC

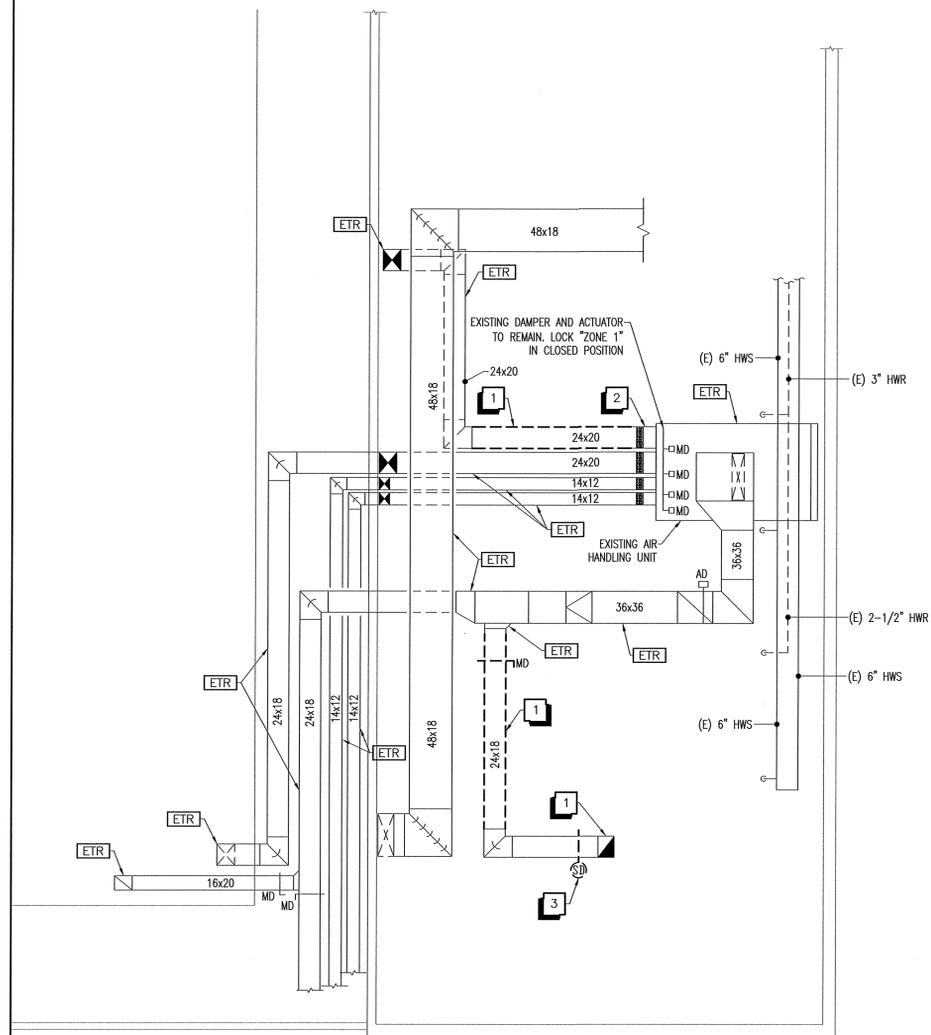
SCALE: 1/8"=1'-0"

DEMOLITION KEYED NOTES:

- * ALL LINEWORK SHOWN DARK AND DASHED TO BE REMOVED
- * ALL LINEWORK SHOWN LIGHT TO REMAIN AS INSTALLED

ETR EXISTING TO REMAIN

- 1** REMOVE AND DISCARD EXISTING DUCTWORK, GRILLES, DAMPERS, SUPPORTS, INSULATION AND ALL RELATED APPURTENANCES COMPLETELY.
- 2** REMOVE AND DISCARD EXISTING THERMOSTAT. ENSURE THAT REMAINING CONTROLS FOR HW-12 CONTINUE TO FUNCTION PROPERLY.
- 3** RELOCATE EXISTING FIRE PROTECTION PENDANT AND PIPING TO LOCATION SHOWN ON DRAWING M1.0



PARTIAL FOURTH FLOOR DEMOLITION PLAN - HVAC

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

DEMOLITION KEYED NOTES:

- * ALL LINEWORK SHOWN DARK AND DASHED TO BE REMOVED
- * ALL LINEWORK SHOWN LIGHT TO REMAIN AS INSTALLED

ETR EXISTING TO REMAIN

- 1** REMOVE AND DISCARD EXISTING DUCTWORK, GRILLES, DAMPERS, SUPPORTS, INSULATION AND ALL RELATED APPURTENANCES COMPLETELY. CAP DUCT AIR TIGHT.
- 2** REMOVE AND DISCARD EXISTING DISCHARGE AIR TEMPERATURE SENSOR. ENSURE THAT REMOVAL DOES NOT AFFECT NORMAL OPERATION OF REMAINING CONTROLS SYSTEM.
- 3** REMOVE AND DISCARD EXISTING DUCT SMOKE DETECTOR. ENSURE THAT REMOVAL DOES NOT AFFECT NORMAL OPERATION OF REMAINING FIRE ALARM SYSTEM.



Project:
URI TOOTELL WRESTLING ROOM COOLING

Richard C. Newell
No. 8486
REGISTERED PROFESSIONAL ENGINEER MECHANICAL

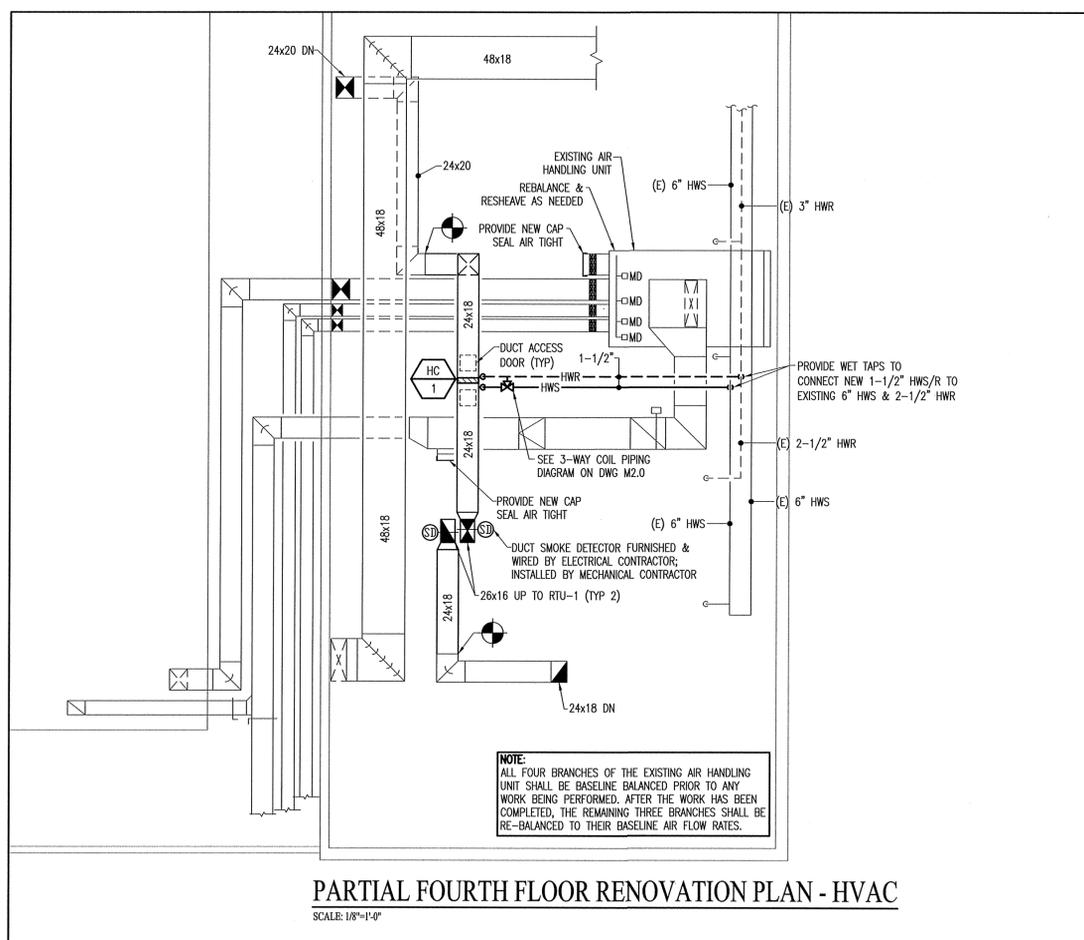
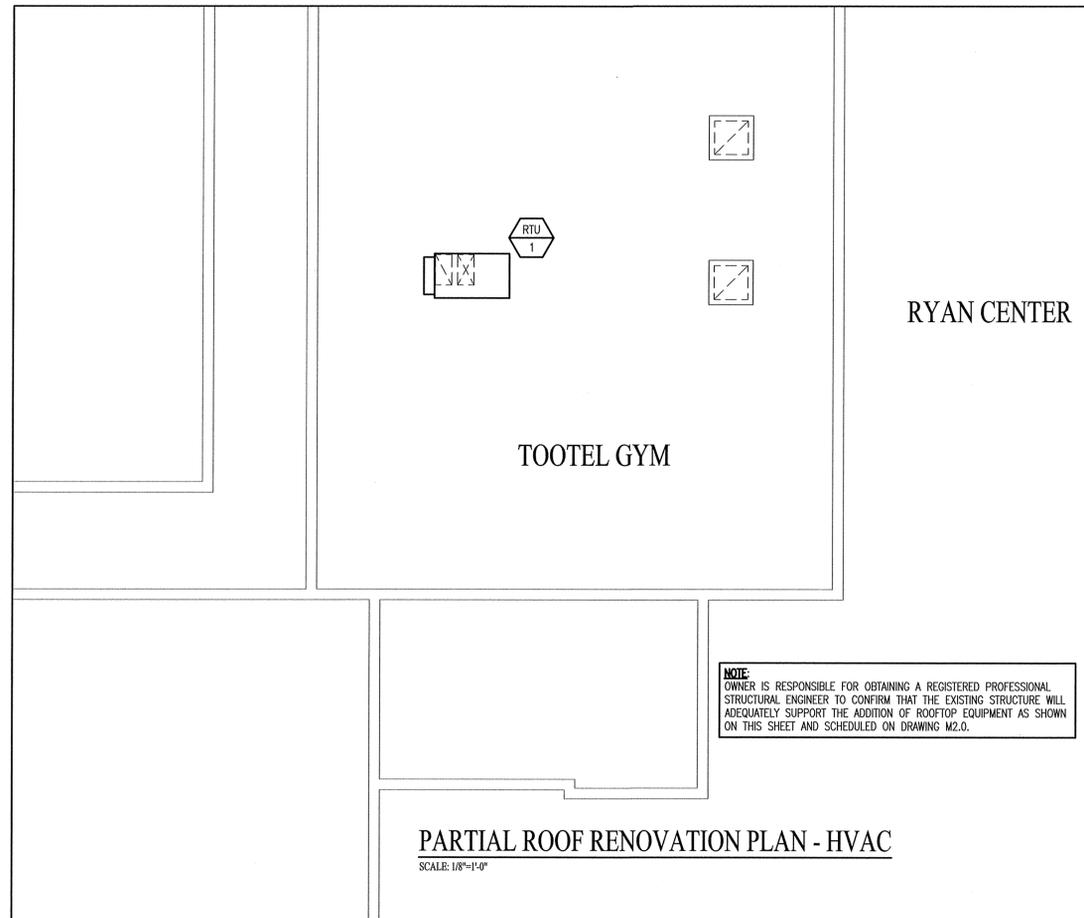
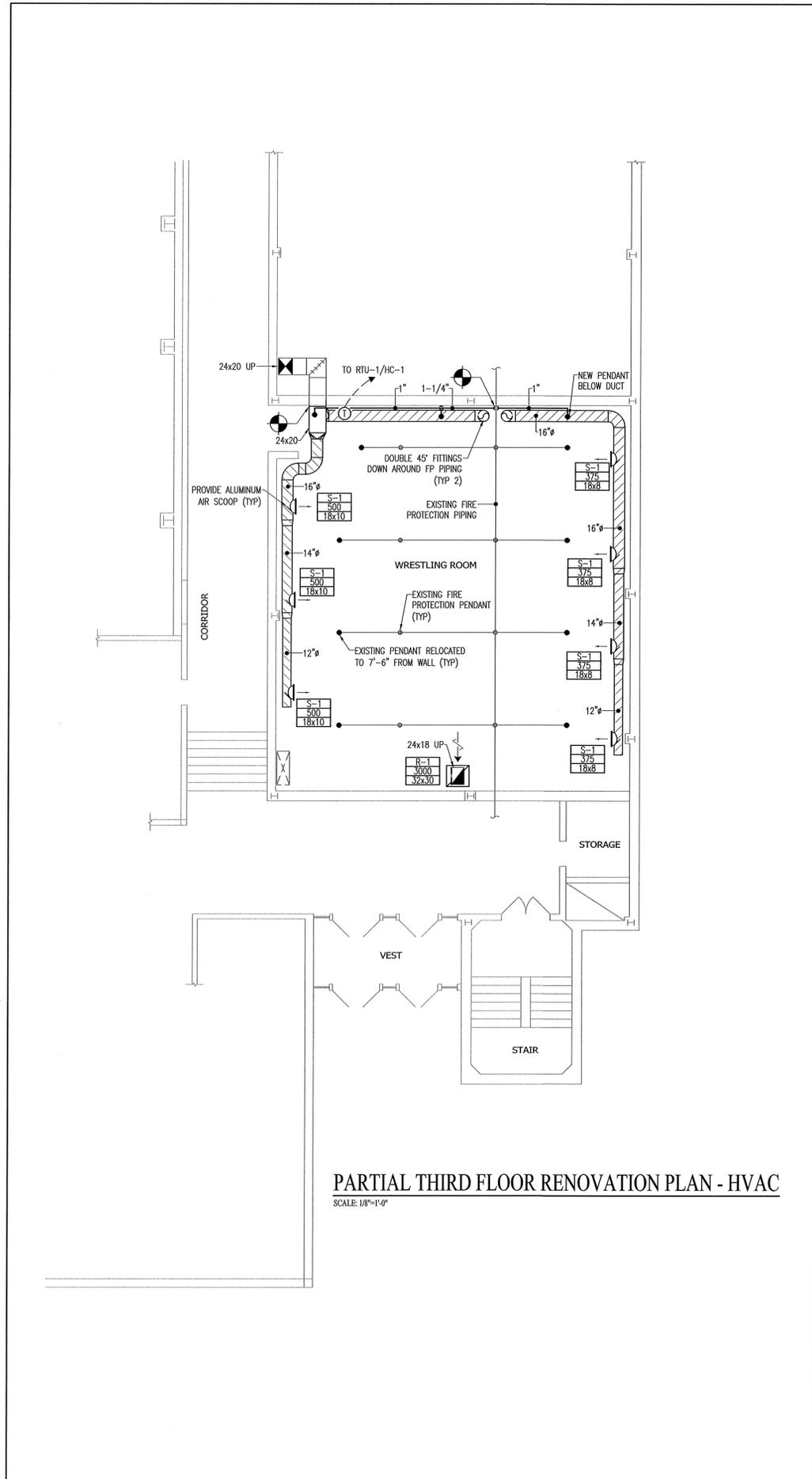
Status:
ISSUED FOR CONSTRUCTION

No.	Revision/Issue	Date

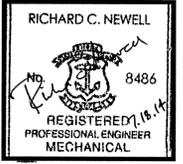
Sheet Title:
DEMOLITION FLOOR PLANS HVAC

Project No: 20130039
Drawn By: CDM
Checked By: RCN
Scale: 1/8"=1'-0"
Date: 07/18/2014

Drawing No:
MD1.0



URI TOOTELE WRESTLING ROOM COOLING



ISSUED FOR CONSTRUCTION

Date	Revision/Issue	No.

RENOVATION FLOOR PLANS HVAC

Project No:	20130039
Drawn By:	CDM
Checked By:	RCN
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Date:	07/18/2014

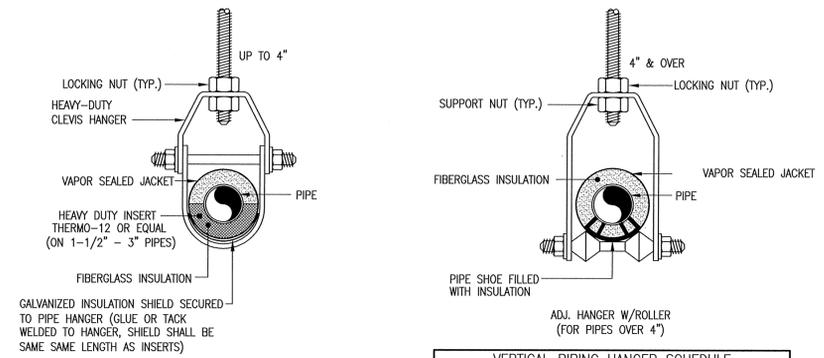
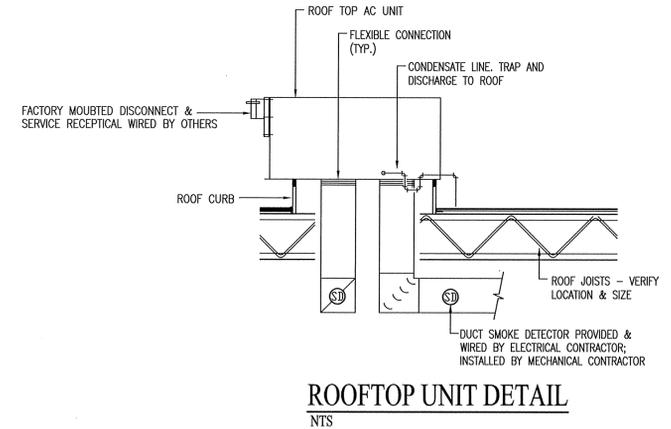
M1.0

RTU ROOFTOP AIR CONDITIONING UNIT SCHEDULE (COOLING ONLY)																															
TAG NO.	LOCATION	AREA SERVED	TOTAL CFM	SUPPLY FAN DATA					DX COOLING COIL DATA					CONDENSER FAN DATA		COMPRESSOR DATA			ELECTRICAL DATA					WEIGHT (LBS.)	MANUFACTURER MODEL NUMBER	REMARKS					
				OA CFM	ESP (IN WC)	FAN RPM	BHP	MOTOR HP	REFRIG TYPE	TOTAL MBH	SENSIBLE MBH	ROWS	EAT. DB °F	EAT. WB °F	LAT. DB °F	LAT. WB °F	NO. FANS	RPM	MOTOR HP	QTY	KW EA	COMP RLA	LRA				MCA	MOP	V	PH	HZ
RTU-1	ROOF	WRESTLING ROOM	3000	750	1.25	1,750	1.43	1.0	R-410A	92.0	68.63	3	80	67	59.6	57.4	1	1,100	0.75	2	3.0	7.1	-	19.9	25	460	3	60	1318	TRANE THC092	SEE NOTES

- NOTES:
 1. PROVIDE DUAL ENTHALPY ECONOMIZER
 2. PROVIDE SPRING ISOLATION CURB
 3. PROVIDE DISCONNECT AND CONVENIENCE OUTLET
 4. PROVIDE 2-STAGE PROGRAMMABLE THERMOSTAT
 5. PROVIDE INTEGRATED DEMAND VENTILATION CONTROL SYSTEM W/CO2 MONITOR

HC HOT WATER HEATING COIL SCHEDULE															
TAG NO.	SERVICE	MBH	AIR DATA			WATER DATA			COIL DATA			MANUFACTURER MODEL NUMBER	REMARKS		
			CFM	EAT (°F)	LAT (°F)	APD (IN WC)	GPM	EWT (°F)	LWT (°F)	NOMINAL HEIGHT	NOMINAL WIDTH (SQ FT)			ROWS	
HC-1	RTU-1	130.0	3000	55	95	0.6	13.0	180	160	18	24	3.00	2	TRANE D5WB18	-

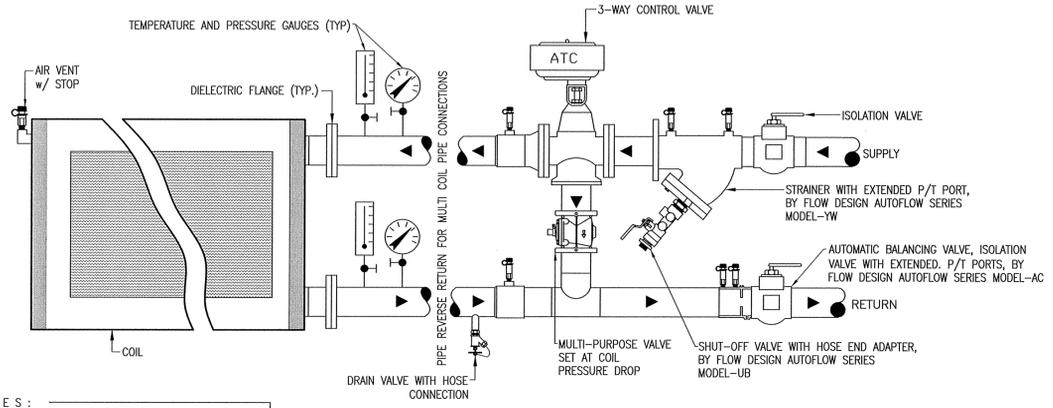
DIFFUSER / REGISTER / GRILLE SCHEDULE			
S-00	← MARK	SUPPLY DIFFUSERS / GRILLES	
000	← CFM		
0x0	← SIZE		
SYMBOL	THROW	MODEL	MARK
	DOUBLE DEFLECTION	PRICE - SDGE SPIRAL DUCT GRILLE w/ ALUMINUM OBD & AIR SCOOP	S-1
S-00	← MARK	RETURN/EXHAUST GRILLES	
000	← CFM		
0x0	← SIZE		
SYMBOL	THROW	MODEL	MARK
	0" DOUBLE DEFLECTION	SIDEWALL OR CEILING GRILLE PRICE 635 - ALUMINUM 1/2" BLADE SPACING HORIZONTAL BLADE	R/E-1



HANGER & SUPPORT SCHEDULE			
PIPE SIZE	ROD SIZE	MAXIMUM SPACING	
		COPPER	STEEL
3/4"	3/8"	5'-0"	7'-0"
1"	3/8"	6'-0"	7'-0"
1-1/4"	3/8"	7'-0"	7'-0"
1-1/2"	3/8"	8'-0"	9'-0"
2"	3/8"	8'-0"	10'-0"
2-1/2"	1/2"	9'-0"	11'-0"
3"	1/2"	10'-0"	12'-0"
4" - 5"	5/8"	12'-0"	14'-0"
6" - 8"	3/4"	14'-0"	17'-0"

VERTICAL PIPING HANGER SCHEDULE	
PIPE MATERIAL	MAX. VERTICAL SPACING
CAST IRON	15'-0"
COPPER	10'-0"
GALVANIZED STEEL	15'-0"
PVC	4'-0"
CPVC	3'-0"

INSULATION INSERTS	
PIPE SIZES	LENGTH
1 1/2" TO 2 1/2"	10"
3" TO 6"	12"
8" TO 10"	16"
12" AND OVER	22"



- NOTES:
 1. VALVES SHALL BE INSTALLED IN A MANNER WHERE ALL PORTS, LEVERS, DRAIN CONNECTION, AND ANY COMPONENTS OF VALVES AND COIL IS EASILY ACCESSIBLE.
 2. DO NOT INSULATE HEATING VALVE BODY.

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