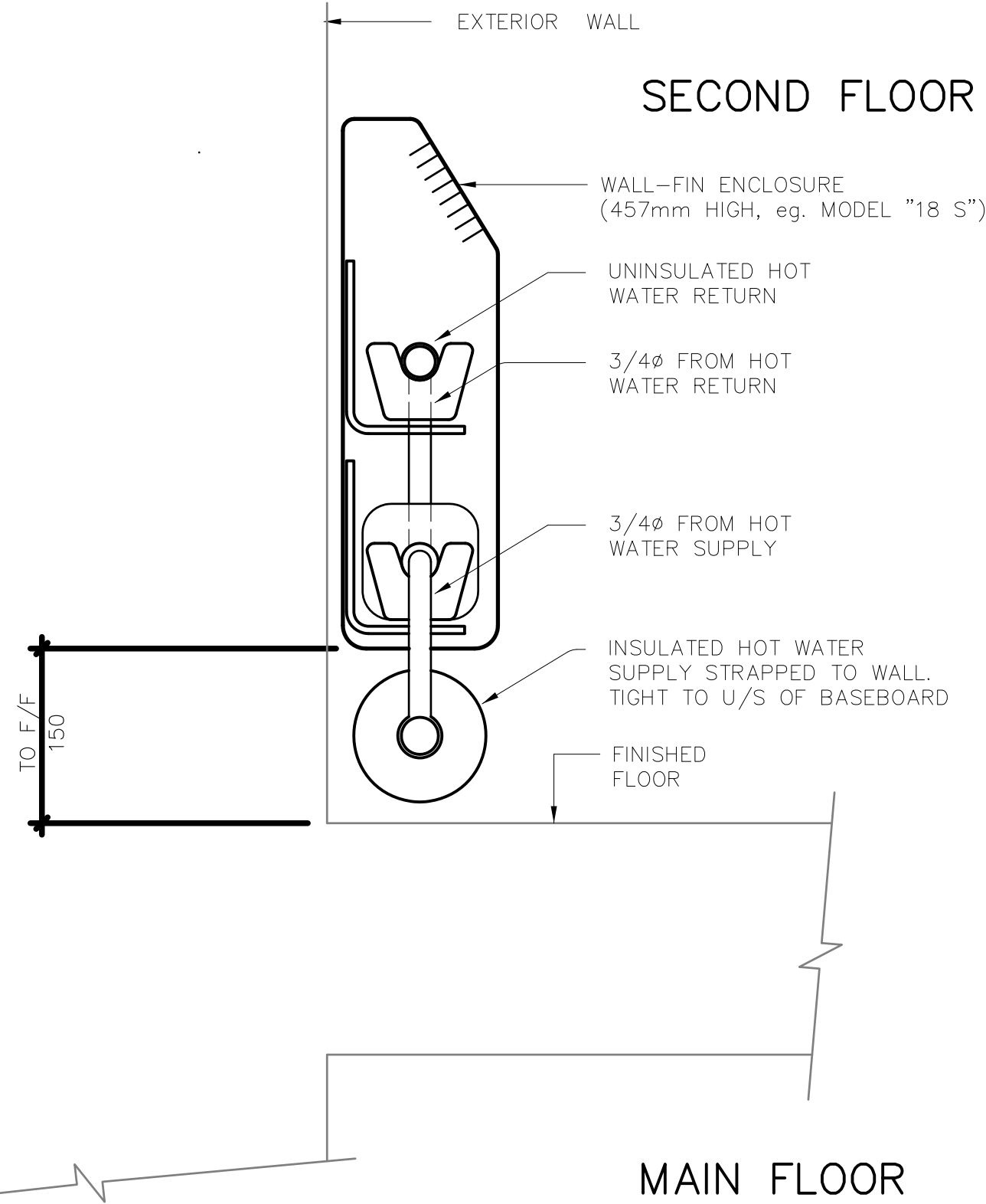
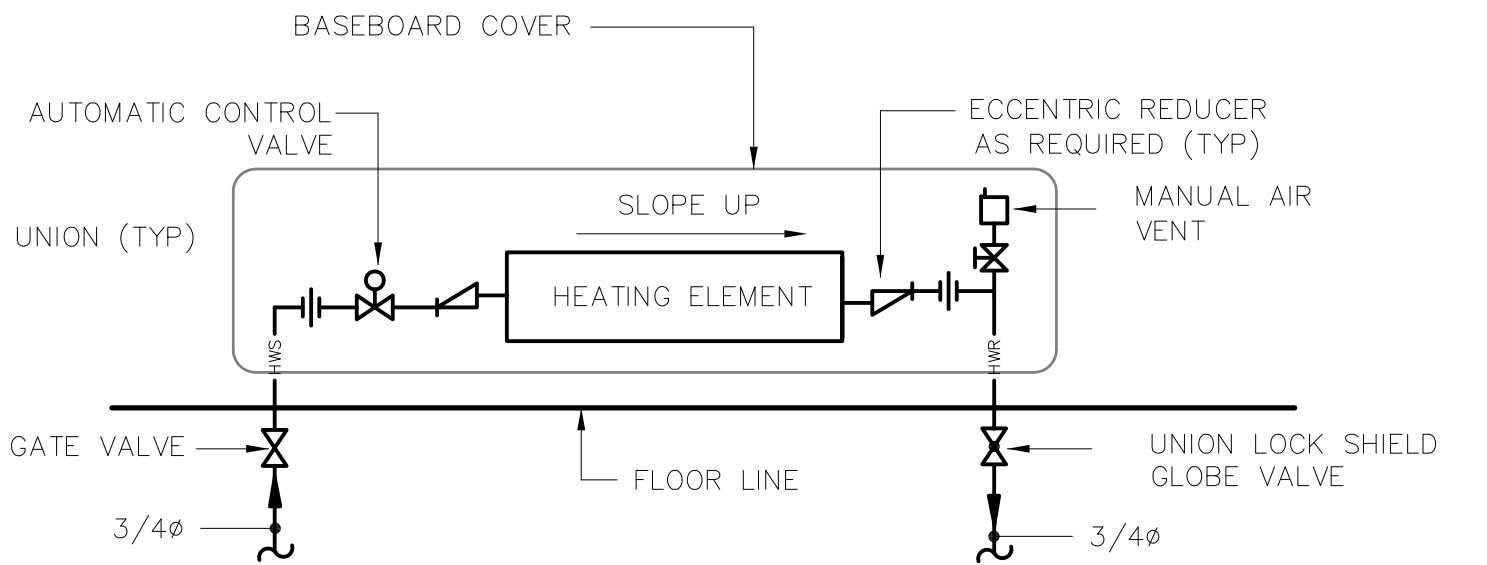


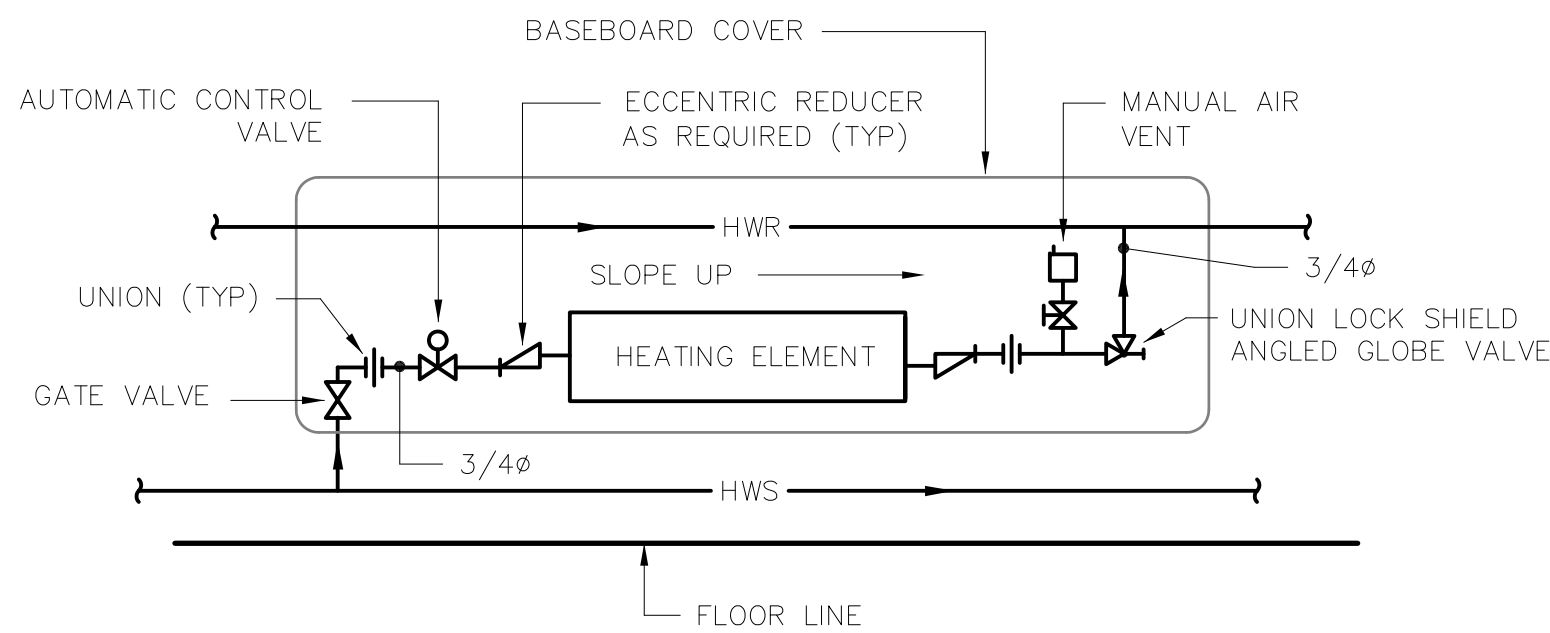
DIFFUSER OR GRILLE
FIREWALL PENETRATION DETAIL
N.T.S.



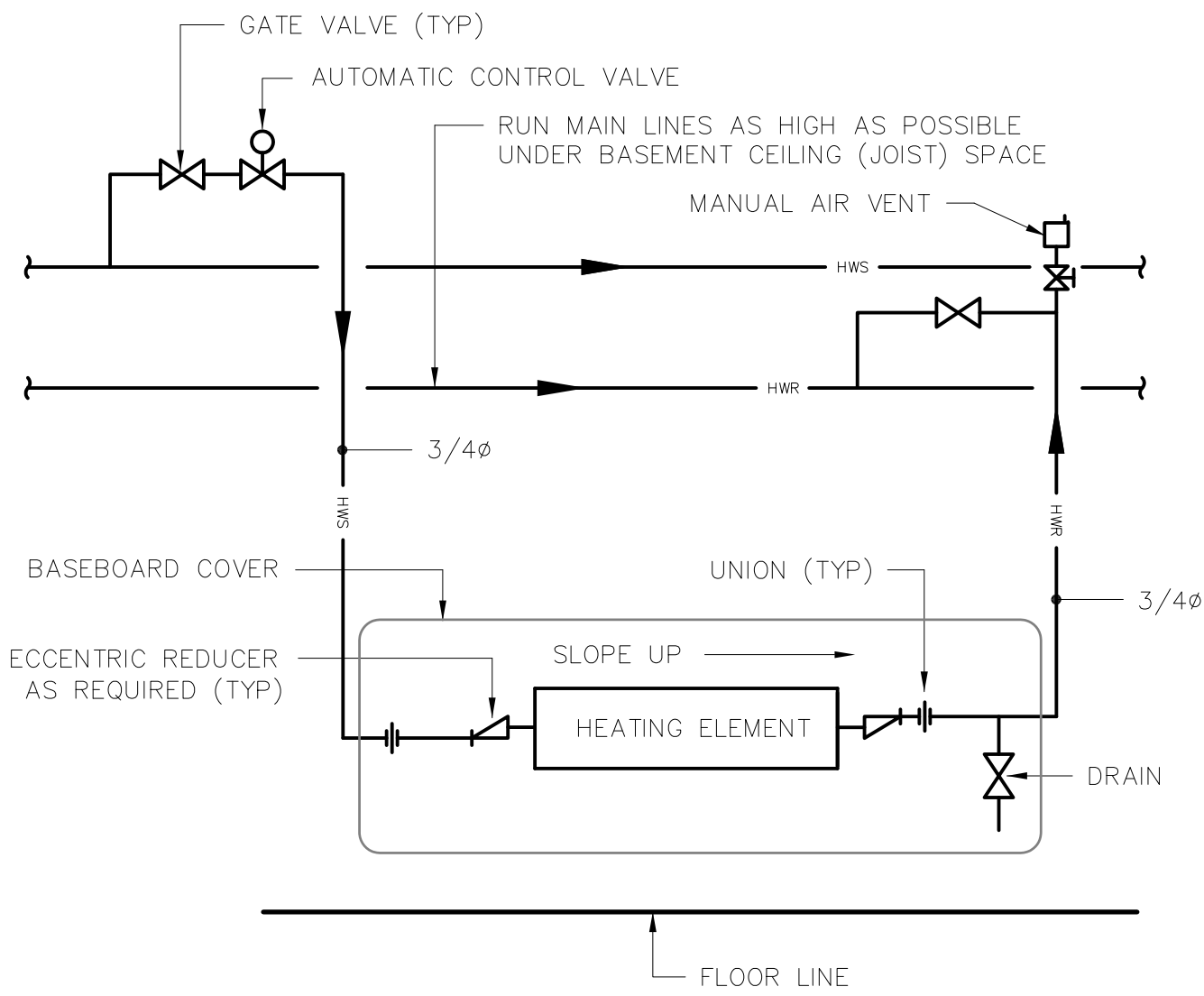
TYPICAL BASEBOARD PIPE
DETAIL - SECOND FLOOR
NTS



TYPICAL WALL FIN
SCHEMATIC - MAIN FLOOR
N.T.S.



TYPICAL WALL FIN
SCHEMATIC - SECOND FLOOR
N.T.S.



BASEMENT BASEBOARD
RADIATION PIPING SCHEMATIC
NTS

DIFFUSER, REGISTER AND GRILLE SCHEDULE							
NUMBER	TYPE	SIZE	NECK	MODEL	MFG	LPS	QTY
100	SUPPLY	200 X 100	-	NM/22/S/3/T/SC/B13	EH-PRICE	70	1
105	SUPPLY	305 X 100	-	NM/22/S/3/T/SC/B13	EH-PRICE	95	1
110	SUPPLY	250 X 200	-	NM/22/S/3/T/SC/B13	EH-PRICE	190	3
110	SUPPLY	250 X 200	-	NM/22/S/3/T/SC/B13	EH-PRICE	200	1
115	SUPPLY	200 X 150	-	NM/22/S/3/T/SC/B13	EH-PRICE	90	4
120	SUPPLY	-	150	RCD/B13	EH-PRICE	70	1
125	SUPPLY	305 X 150	-	NM/22/S/3/T/SC/B13	EH-PRICE	160	3
130	SUPPLY	305 X 200	-	NM/22/S/3/T/SC/B13	EH-PRICE	235	1
135	SUPPLY	-	200	RCD/B13	EH-PRICE	120	1
140	SUPPLY	305 X 305	200	SCD/3P/S/-/B13	EH-PRICE	95	2
145	SUPPLY	200 X 200	-	NM/22/S/3/T/SC/B13	EH-PRICE	165	2
150	SUPPLY	305 X 305	200	SCD/1/S/-/B13	EH-PRICE	90	1
155	SUPPLY	200 X 100	-	NM/22/S/VCS4/T/A/B13	EH-PRICE	24	12
155	SUPPLY	200 X 100	-	NM/22/S/VCS4/T/A/B13	EH-PRICE	50	3
155	SUPPLY	200 X 100	-	NM/41L/VCS4/T/A/B13	EH-PRICE	50	1
155	SUPPLY	200 X 100	-	NM/42S/VCS4/T/A/B13	EH-PRICE	50	1
160	SUPPLY	1000 X 62	-	LPB/16B/DV1/3/271/-/A/CC/B13	EH-PRICE	85	2
200	RETURN	305 X 305	-	NM/80/-/-/T/A/B13	EH-PRICE	190	5
200	RETURN	305 X 305	-	NM/80/-/-/T/A/B13	EH-PRICE	200	1
205	RETURN	305 X 400	-	NM/80/-/-/T/A/B13	EH-PRICE	510	1
210	RETURN	915 X 610	-	NM/80/-/-/T/A/B13	EH-PRICE	1400	1
220	RETURN	610 X 100	-	TB/80/-/-/T/A/B13	EH-PRICE	95	2
225	RETURN	200 X 200	-	NM/80/-/-/T/A/B13	EH-PRICE	120	2
230	RETURN	460 X 200	-	NM/80/-/-/T/A/B13	EH-PRICE	190	2
230	RETURN	460 X 200	-	NM/80/-/-/T/A/B13	EH-PRICE	235	6
235	RETURN	200 X 100	-	NM/80/-/VCS4/T/A/B13	EH-PRICE	24	8
235	RETURN	200 X 100	-	NM/80/-/VCS4/T/A/B13	EH-PRICE	50	5
300	EXHAUST	200 X 100	-	NM/80/-/-/T/A/B13	EH-PRICE	24	4
300	EXHAUST	200 X 100	-	NM/80/-/-/T/A/B13	EH-PRICE	35	3
300	EXHAUST	200 X 100	-	NM/80/-/-/T/A/B13	EH-PRICE	50	5
300	EXHAUST	200 X 100	-	NM/80/-/VCS4/T/A/B13	EH-PRICE	50	1
305	EXHAUST	405 X 100	-	NM/80/-/-/T/A/B13	EH-PRICE	95	1
315	EXHAUST	460 X 460	-	NM/80/-/-/T/A/B13	EH-PRICE	285	1
320	EXHAUST	305 X 100	-	NM/80/-/-/T/A/B13	EH-PRICE	85	4
325	EXHAUST	200 X 200	-	NM/80/-/-/T/A/B13	EH-PRICE	95	1
400	TRANSFER	200 X 100	-	NM/80/-/VCS4/T/A/B13	EH-PRICE	24	4
400	TRANSFER	200 X 100	-	NM/80/-/VCS4/T/A/B13	EH-PRICE	50	3
405	TRANSFER	200 X 100	-	NM/80/-/-/T/A/B13	EH-PRICE	50	2
410	TRANSFER	200 X 200	-	NM/80/-/-/T/A/B13	EH-PRICE	95	1
415	TRANSFER	305 X 305	-	NM/80/-/-/T/A/B13	EH-PRICE	215	2
415	TRANSFER	305 X 305	-	NM/80/-/-/T/A/B13	EH-PRICE	95	1
420	TRANSFER	200 X 200	-	NM/80/-/VCS4/T/A/B13	EH-PRICE	95	1
THE CONTRACTOR IS RESPONSIBLE TO VERIFY THE ACCURACY OF QUANTITIES IN THIS SCHEDULE WITH HVAC DWG - M2.							

PUMP SCHEDULE (BASED ON ARMSTRONG)

P-1	HEATING SYSTEM PUMPS SERIES 1060-2D 1800 RPM CAPACITY 4.4 L/S
& 2	@ 14 M. HD - 1.5 KW. MOTOR
P-3	DOMESTIC WATER RECIRCULATING SSC-30 CAPACITY .25 L/S @ 2.0 M. HD. - 120V/1/60

FORCE FLOW SCHEDULE (BASED ON TRANE)

BASED ON 11.1 °C (20 °F) WTD
FF-1 - MODEL M46A004, CAPACITY 10.5 kW, AIR FLOW <HIGH SPEED> 198 L/S, EWT 82.2 °C, FLOW 0.23 L/S, C/W INTEGRAL SPEED SWITCH, C/W REMOTE THERMOSTAT
FF-2 - MODEL E46A002, CAPACITY 3.9 kW, AIR FLOW <LOW SPEED> 104 L/S, EWT 82.2 °C, FLOW 0.10 L/S, C/W INTEGRAL SPEED SWITCH, C/W REMOTE THERMOSTAT, RECESSED
FF-3 - MODEL M46A003, CAPACITY 8.2 kW, AIR FLOW <HIGH SPEED> 142 L/S, EWT 82.2 °C, FLOW 0.18 L/S, C/W INTEGRAL SPEED SWITCH, C/W REMOTE THERMOSTAT
FF-4 - MODEL M46A003, CAPACITY 9.7 kW, AIR FLOW <HIGH SPEED> 142 L/S, EWT 82.2 °C, FLOW 0.21 L/S, C/W INTEGRAL SPEED SWITCH, C/W REMOTE THERMOSTAT
FF-5 - MODEL B12A004, CAPACITY 8.5 kW, AIR FLOW <HIGH SPEED> 93 L/S, EWT 82.2 °C, FLOW 0.19 L/S, C/W INTEGRAL SPEED SWITCH, C/W REMOTE THERMOSTAT

LOCATIONS

FF-1	VESTIBULE, M-01
FF-2	STAIR No.2, MAIN FLOOR
FF-3	VESTIBULE, M-04
FF-4	STAIR No.1, MAIN FLOOR
FF-5	COMMON AREA, 2-01

WALL FIN CONVECTOR TYPE 12S - ENCLOSURE
(TYPE 18S - ENCLOSURE SECOND FLOOR) (BASED ON TRANE)
1 ROW 32mm COPPER ALUMINUM

- ① FIN LENGTH 610mm, COVER LENGTH AS SHOWN , CAPACITY 0.7 kW, @ 82.2 °C A. W. T.
- ⑩ FIN LENGTH 610mm, COVER LENGTH CONTINUOUS, CAPACITY 0.7 kW, @ 82.2 °C A. W. T.
- ② FIN LENGTH 915mm, COVER LENGTH AS SHOWN , CAPACITY 1.0 kW, @ 82.2 °C A. W. T.
- ⑫ FIN LENGTH 915mm, COVER LENGTH CONTINUOUS, CAPACITY 1.0 kW, @ 82.2 °C A. W. T.
- ③ FIN LENGTH 1070mm, COVER LENGTH AS SHOWN , CAPACITY 1.2 kW, @ 82.2 °C A. W. T.
- ⑬ FIN LENGTH 1070mm, COVER LENGTH CONTINUOUS, CAPACITY 1.2 kW, @ 82.2 °C A. W. T.
- ④ FIN LENGTH 1525mm, COVER LENGTH AS SHOWN , CAPACITY 1.7 kW, @ 82.2 °C A. W. T.
- ⑭ FIN LENGTH 1525mm, COVER LENGTH CONTINUOUS, CAPACITY 1.7 kW, @ 82.2 °C A. W. T.
- ⑤ FIN LENGTH 1830mm, COVER LENGTH AS SHOWN , CAPACITY 2.1 kW, @ 82.2 °C A. W. T.
- ⑮ FIN LENGTH 1830mm, COVER LENGTH CONTINUOUS, CAPACITY 2.1 kW, @ 82.2 °C A. W. T.
- ⑥ FIN LENGTH 2440mm, COVER LENGTH AS SHOWN , CAPACITY 2.8 kW, @ 82.2 °C A. W. T.
- ⑯ FIN LENGTH 2440mm, COVER LENGTH CONTINUOUS, CAPACITY 2.8 kW, @ 82.2 °C A. W. T.
- ⑦ FIN LENGTH 2740mm, COVER LENGTH AS SHOWN , CAPACITY 3.1 kW, @ 82.2 °C A. W. T.
- ⑰ FIN LENGTH 2740mm, COVER LENGTH CONTINUOUS, CAPACITY 3.1 kW, @ 82.2 °C A. W. T.
- ⑧ FIN LENGTH 3050mm, COVER LENGTH AS SHOWN , CAPACITY 3.5 kW, @ 82.2 °C A. W. T.
- ⑱ FIN LENGTH 3050mm, COVER LENGTH CONTINUOUS, CAPACITY 3.5 kW, @ 82.2 °C A. W. T.

UNIT HEATER SCHEDULE (BASED ON TRANE)

BASED ON 15.55 °C (60 °F) EAT, 11.1 °C (20 °F) WTD

UH-1 MODEL 42-S, CAPACITY 3.2 kW, AIRFLOW 279 L/S <591 CFM>, EWT 82.2 °C, FLOW 0.07 L/S

LOCATIONS

UH-1 MECHANICAL ROOM, B-05

EXHAUST FAN SCHEDULE

- EF-1 MAIN FLOOR EXHAUST - DELHI 310, 375 L/S (800 cfm), .06 kPa (.25' wg) ESP, 0.07 kW (.10 HP) C/W FLEX CONNECTIONS AT OUTLET.
- EF-2 BASEMENT EXHAUST - GREENHECK BSQ-90-4, 285 L/S <600 cfm>, .12 kPa (.50' wg) ESP, 0.14 kW (.15 HP) C/W FLEX CONNECTIONS AT INLET AND OUTLET, C/W SPRING ISOLATORS.
- EF-3 MAIN FLOOR EXHAUST - DELHI 312, 519 L/S <1100 cfm>, .09 kPa (.375' wg) ESP, 0.14 kW (.19 HP) C/W FLEX CONNECTIONS AT OUTLET.
- EF-4 ELECTRIC ROOM EXHAUST - GREENHECK BSQ-70-4, 95 L/S <200 cfm>, .06 kPa (.25' wg) ESP, 0.06 kW (.1/8 HP) C/W FLEX CONNECTIONS AT INLET AND OUTLET, C/W SPRING ISOLATORS. FAN OF SPARKPROOF CONSTRUCTION C/W EXPLOSION PROOF MOTOR.
- EF-5 DRYER EXHAUST BOOSTER FANS - REVERSOMATIC MODEL BF-150 120V/1/60 6 & 8 MOUNT EACH FAN IN EXPOSED PORTION OF VERTICAL DRYER DUCT.
- EF-7 KITCHEN EXHAUST - BROAD DUCTED SERIES 212 L/S (450 cfm), C/W LIGHTS AND 2 SPEED SWITCH - REFER TO SPEC FOR EXACT SIZE AND COLOR.

AIR HANDLER / MAKEUP UNIT SCHEDULE

- AHU-1 MAIN FLOOR AIR HANDLER - Eng A - SERIES 'S' 350 @ 1980 L/S <4200 cfm>, .24 kPa (.1.0' wg) ESP, 1.49 kW (2 HP) C/W FACTORY INLET HOOD, ROOF MTG CURB AND ISOLATORS, C/W MOTORIZED RELIEF MIXING BOX.
- AHU-2 BASEMENT FLOOR AIR HANDLER - Eng A - SERIES 'S' 125 @ 900 L/S <2100 cfm>, .24 kPa (.1.0' wg) ESP, 1.14 kW (1 1/2 HP) C/W FACTORY INLET HOOD, ROOF MTG CURB AND ISOLATORS.
- AMU-1 MAIN AND 2nd FLOORS RESIDENCE AIR MAKEUP UNIT - Eng A - SERIES 'S' 150 @ 520 L/S <1100 cfm>, .24 kPa (.1.0' wg) ESP, 1.14 kW (1 1/2 HP) C/W FACTORY INLET HOOD, ROOF MTG CURB AND ISOLATORS.

revisions		date
Client		Client
CORRECTIONAL SERVICE CANADA		
project title		titre du projet
COMMUNITY CORRECTIONAL CENTRE		
1045 MAIN STREET WINNIPEG , MANITOBA		
approved by		approuve par
designed by	AP, TS	concu par
drawn by	AP	dessine par
reviewed by		
PWC Project Manager		Administrateur de Projets TPC
PWC A&E Resources Manager		Gestionnaire Ressources A&G TPC
Client		Client
drawing title		titre du dessin
MECHANICAL SCHEMATICS, DETAILS + SCHEDULES		
scale	project no.	sheet
echelle	projet no	feuille
AS NOTED	781438	M5
date	CAD no.	of 6
JUNE, 1993	A097	

