

REV	DESCRIPTION	DATE	APPROVED

PUMP SCHEDULE	
DESCRIPTION	
TACO RED BARON IN-LINE CIRCULATOR # 112 10 GPM, 20 FT. HD, 1/2HP, 3450 RPM, 115V/1A/60HZ, 125 PSI, ALL BRONZE CONSTRUCTION	

SUMP PUMP:
SUBMERSIBLE SUMP PUMP WITH AUTOMATIC LEVEL CONTROL, CAST IRON PUMP VOLUTE AND MOTOR HOUSING, NON CLOGGING, TWO VANE, CAST IRON IMPELLER WITH STAINLESS STEEL SHAFT, CARBON AND CERAMIC FACED MECHANICAL SHAFT SEALS, OIL FILLED MOTOR IN WATERPROOF, HERMETICALLY SEALED HOUSING.

SP #	GPM	TDH	HP	VOLTS/PH/Hz	FCA	AURORA/HYDROMATIC MODEL (OR APPROVED)
SP-1	25.0	38FT	1/2	120/1/60	15.0	SPD-50H-AH1

DEVICE NO	MAX AIR QTY	DESCRIPTION	NECK SIZE	FACE SIZE	MANUF. MODEL NO	NOTES
CD-1	365	SURFACE MOUNT SUPPLY AIR DIFFUSER	12" x 24"	24X24	TITUS PCS-AA	
CD-2	440	SURFACE MOUNT SUPPLY AIR DIFFUSER	12" x 24"	24X24	TITUS PCS-AA	
CD-3	100	SURFACE MOUNT SUPPLY AIR DIFFUSER	6" x 12"	12X12	TITUS PCS-AA	
CD-4	250	SURFACE MOUNT SUPPLY AIR DIFFUSER	6" x 12"	12X12	TITUS PCS-AA	
CD-5	500	EXPOSED	12" x 27" DA		TITUS TMRA	
CD-6	300	SURFACE MOUNT SUPPLY AIR DIFFUSER	10" x 16"	16X16	TITUS PCS-AA	
CD-7	250	LAY-IN CEILING	6" x 12"	12X12	TITUS PCS-AA	
SR-1	1080	SIDEWALL SUPPLY AIR REGISTER	24X10	26X12	TITUS 300RS	
SR-2	550	SIDEWALL SUPPLY AIR REGISTER	18X10		TITUS 300RS	
SR-3	800	SIDEWALL SUPPLY AIR REGISTER	48X6		TITUS 300RS	
SR-4	425	SIDEWALL SUPPLY AIR REGISTER	24X6		TITUS 300RS	
SR-5	550	SIDEWALL SUPPLY AIR REGISTER	24X10		TITUS 300RS	
SR-6	275	SIDEWALL SUPPLY AIR REGISTER	12X8		TITUS 300RS	
SR-7	100	SIDEWALL SUPPLY AIR REGISTER	12X6		TITUS 300RS	
RG-1	360	SURFACE MOUNT RETURN AIR GRILLE	10X10	12X12	TITUS PAR-AA	4.
RG-2	4215	SURFACE MOUNT RETURN AIR GRILLE	48X22	48X24	TITUS PAR-AA	
RG-3	905	SURFACE MOUNT RETURN AIR GRILLE	16" x 24"		TITUS PAR-AA	
RG-4	1500	SIDEWALL GRILLE	48X18	12X12	TITUS 350RL	4.
RG-5	1000	SIDEWALL GRILLE	30X18	48X24	TITUS 350RL	
RG-6	1800	SURFACE MOUNT CEILING RETURN	18X18	24X24	TITUS PAR-AA	

NOTES:
1. PERFORATED FACE PLATE WITH SEISMIC CLIPS.
2. PROVIDE OPPOSED BLADE VOLUME CONTROL DAMPERS.
3. PROVIDE OFF-WHITE FINISH FOR FACE PLATES, FRAME AND LOUVER BARS.
4. PROVIDE ROUND TO SQUARE ADAPTER AT DIFFUSER NECK.
5. PROVIDE OFF-WHITE FINISH FROM FRAME AND FACE PLATE, FLAT BLACK FOR EXPOSED-TO-VIEW INTERNAL PARTS.

NOTE:
VERIFY ALL CEILING TYPES PRIOR TO ORDERING GRDS.

ROOF HOOD SCHEDULE					
TAG	CURB SIZE (N.)	THROAT SIZE (N.)	THROAT AREA (SF)	MAX. CFM @ +/- 500 FPM	MANUFACTURER/ MODEL NO.
RH-1	32X38	24X30	5.0	2400	GREENHECK FHI
RH-2	18X24	26X32	3.0	1500	GREENHECK FHR

LOWER SCHEDULE						
TAG	SIZE (N.)	FREE AREA (SQ. FT.)	CFM	VELOCITY (FPM)	MANUFACTURER/ MODEL NO.	NOTES
L-1	30X18	1.70	825	485	RUSKIN ELF375DX	1.
L-2	48X24	4.02	2400	870	RUSKIN ELF375DX	

NOTES:
1. MATCH COLOR TO ARCHITECTURAL FINISH.

HV #	SUPPLY FAN CAPACITY		FAN MOTOR		OUTSIDE AIR		GAS HEATING CAPACITY (BTUH X 1000)		ICS AFUE	ELECTRICAL DATA		TRANE MODEL NO.	EQUIPMENT WEIGHT (LBS)	NOTES	
	CFM	EXT. S.P. (W.G.)	FAN RPM	MOTOR HP	MIN. (CFM)	MAX. (CFM)	INPUT	OUTPUT		VOLTS/PH/Hz	MAXIMUM FUSE SIZE				
RTU 1	2500	0.6	-	-	1-1/2	250	2500	200.0	180.0	80%	-	208/3/60	GRA20PDBFD	1100	1,2,3
RTU 2	3100	0.6	-	-	2	300	3100	250.0	180.0	80%	-	208/3/60	GRA25PDBFD	1150	1,2,3
RTU 3	11000	0.6	-	-	15	2200	7850	600.0	450.0	80%	-	208/3/60	GRA60PDBFD	2500	1,2,3
RTU 4	11000	0.6	-	-	15	2200	7850	600.0	450.0	80%	-	208/3/60	GRA60PDBFD	2500	1,2,3
RTU 5	7000	0.7	-	-	10	1000	6000	500.0	340.0	80%	-	208/3/60	GRA50PDBFD	2050	1,2,3
RTU 6	2400	0.6	-	-	2	250	2000	250.0	183.0	80%	-	208/3/60	GRA25PDBFD	1270	1,2,3
RTU 7	5000	0.7	-	-	5	500	3820	350.0	275.0	80%	-	208/3/60	GRA35PDBFD	1640	1,2,3

NOTES:
1. EXTERNAL STATIC PRESSURE (EXCLUDES FILTER, COIL AND INTERNAL CABINET PRESSURE DROP).
2. GROSS WEIGHT INCLUDES WEIGHT OF CURB.
3. ROOFTOP AIR HANDLING UNIT WITH DOWNFLOW SUPPLY AND FULLY MODULATING ECONOMIZER, INCLUDING 0-100% MOTOR AND DAMPERS.

F #	SUPPLY FAN CAPACITY		FAN MOTOR		OUTSIDE AIR		GAS HEATING CAPACITY (BTUH X 1000)		ICS AFUE	ELECTRICAL DATA		TRANE MODEL NO.	EQUIPMENT WEIGHT (LBS)	NOTES	
	CFM	EXT. S.P. (W.G.)	FAN RPM	MOTOR HP	MIN. (CFM)	MAX. (CFM)	INPUT	OUTPUT		VOLTS/PH/Hz	MAXIMUM FUSE SIZE				
F 1	1350	0.6	-	-	3/4	200	1020	100.0	88.0	92%	-	115/1/60	TUX100C948D	160	
F 2	1500	0.6	-	-	3/4	200	1060	100.0	91.2	92%	-	115/1/60	TUX100C948D	160	
F 3	1900	0.6	-	-	3/4	250	1820	120.0	113.0	92%	-	115/1/60	TUX120C960D	200	
F 4	1000	0.7	-	-	1/3	100	500	60.0	56.0	92%	-	115/1/60	TUX060	150	1.

NOTES:
1. THERMOSTAT SET TO 44F WITH LOCKING COVER.

UH #	GAS HEATING		THERMAL EFFICIENCY	ELECTRICAL DATA VOLTS/PH/Hz	TRANE MODEL NO.	EQUIPMENT WEIGHT (LBS)	NOTES		
	INPUT (MBH)	OUTPUT (MBH)							
UH 1	1100	1/30	75.0	60.0	80%	115/1/60	GHD007	120	1.

NOTES:
1. THERMOSTAT SET TO 44F WITH LOCKING COVER.

AS BUILT
11/18/03

EF #	EXHAUST CAPACITY		FAN MOTOR DATA		MAX. SONES	GREENHECK MODEL	WEIGHT (LBS)	LOCATION	TYPE	
	CFM	EXT. S.P.	RPM	115V/1A/60HZ AMPS WATTS						
EF 1	350	0.25	1300	1.50 150	-	3.2	CSP-228	23	WOMENS RR MAIN LEVEL	2,3
EF 2	350	0.25	1300	1.50 150	-	3.2	CSP-228	23	MENS RR MAIN LEVEL	2,3
EF 3	75	0.25	1500	.750 40	-	3.4	SP-6	6	JANITORS RM MAIN LEVEL	1,3
EF 4	410	0.25	860	-	1/8	0.6	CUE101-C	58	MEN 335	3,4
EF 5	550	0.25	1140	-	1/6	6.5	CUE101-B	58	WOMEN 334	3,4

FAN TYPE:
1. CENTRIFUGAL CABINET TYPE, CEILING MOUNT, INTEGRAL BACK DRAFT DAMPER AND QUICK DISCONNECT FLOO, INSULATED HOUSING, RUBBER-IN-SHEAR VIBRATION ISOLATION.
2. CENTRIFUGAL CABINET TYPE, IN-LINE, INTEGRAL BACK DRAFT DAMPER AND QUICK DISCONNECT FLOO, INSULATED HOUSING, RUBBER-IN-SHEAR VIBRATION ISOLATION.
3. CONTROL FROM LIGHT SWITCH/EMCS SYSTEM
4. WITH SPEED CONTROL.

P-#	PLUMBING FIXTURE/TRM DESCRIPTION	PLUMBING CONNECTIONS				NOTES
		CW	HW	WASTE	VENT	
P-1	LABORATORY: AMERICAN STANDARD "WASHBROOK" 1.0 #6501.010, VITREOUS CHINA, FLUSHING SW, WASHOUT FLUSH ACTION, STAINLESS STEEL STRAINER, WALL HANGER, ADA COMPLIANT WHEN MOUNTED 50 TOP OF RIM IS 17" AFF, SLOAN ROYAL FLUSHOMETER #186-1 W/CHROME FINISH.	3/4"	-	2"	1 1/2"	1,2,3
P-2	LABORATORY: AMERICAN STANDARD "AQUALYN" 476.028 OVAL VITREOUS CHINA, 20"X17" OVERALL, SELF-RIMMING LAVATORY, 4" CENTERS, DELTA MODEL #501 FAUCET WITH PERFORATED SS DRAIN ASSEMBLY, 1/2" CW SUPPLIES WITH STOP, ABS P-TRAP, ADA COMPLIANT	1/2"	1/2"	2"	1 1/2"	1,2,3
P-3	FLOOR DRAIN: JAY R. SMITH MODEL #2003(A) ROUND TOP 6" DIA. NO HUB OUTLET, D20 CAST IRON BODY, W/KNICKLE BRONZE STRAINER HEAD, PROVIDE & INSTALL TRAP PRIMER.	-	-	-	1 1/2"	3.
P-4	WATER CLOSET: AMERICAN STANDARD "AFWALL", EL. 1.6, 2257.103 VITREOUS CHINA, FLUSH VALVE, ELONGATED BOWL, TOP SPRAY, WATER CLOSET, WALL MOUNTED, DIRECT SIPHON JET ACTION, BOLT CAPS, OLSONITE # 85 SOLID PLASTIC SEAT WITH OPEN FRONT, WITH SLOAN ROYAL FLUSHOMETER # 111 W/CHROME FINISH, ADA COMPLIANT WHEN MOUNTED W/TOP OF RIM #19" AFF.	1 1/4"	-	3"	2"	1,2,3
P-5	JANITORS SINK: AMERICAN STANDARD "FLOWELL" 7741.00, ENAMELED CAST IRON, 28"X28" SERVICE SINK, CORNER MOUNT WITH #7745.811 VINYL RIM GUARD, DELTA MODEL #28TB063 CHROME SERVICE SINK FAUCET.	1/2"	1/2"	3"	1 1/2"	1,2,3
P-6	DRINKING FOUNTAIN: ELKAY EDFA-111-C, TWO LEVEL DRINKING FOUNTAIN, NO REMOTE CHILLER-CW ONLY, STAINLESS STEEL FINISH, WALL MOUNT, ADA COMPLIANT, FLOW REGULATOR, CHROME BUBBLER, FRONT PUSH BUTTON.	1/2"	-	1 1/2"	1 1/2"	2,3.
P-7	BAR SINK: ELKAY LR-1918, OVERALL 18"X19"X7"-1/2" DEEP INSIDE, 18 GAUGE, TYPE 302 STAINLESS STEEL SINK, 3-HOLE PUNCHING, CHICAGO NO. 1100-HAB, 8" CENTERS, 8" SPOUT, 1000 HANDLES, E12 AERATOR, ELKAY LK-99 DUO STRAINER, KOHLER K-7605 3/8" ANGLE SUPPLIES WITH STOPS.	1/2"	1/2"	2"	1 1/2"	2,3.
P-8	SINK: ELKAY LR-2521, OVERALL 25"X21"X6" DEEP INSIDE, 18 GAUGE, TYPE 302 STAINLESS STEEL SINK, 3-HOLE PUNCHING, CHICAGO NO. 1100-HAB, 8" CENTERS, 8" SPOUT, 1000 HANDLES, E12 AERATOR, ELKAY LK-99 DUO STRAINER, KOHLER K-7605 3/8" ANGLE SUPPLIES WITH STOPS.	1/2"	1/2"	2"	1 1/2"	2,3.
P-9	DRINKING FOUNTAIN/CUSPIDOR: ELKAY EDFA-211-C, STAINLESS STEEL, SEMI-RECESSED, FLEX-GUARD, SAFETY BUBBLER, PERFORATED DOMED STRAINER AND VALVELESS, OPTIONAL BOTTOM COVER PLATE.	1/2"	-	2"	1 1/2"	3.
P-10	DRINKING FOUNTAIN: ELKAY EDFA-111-C, STAINLESS STEEL, ADA, FRONT PUSH BAR, WALL MOUNTED.	1/2"	-	2"	1 1/2"	3.
P-11	SINK: ELKAY LR-3319, 33"X19"-1/2"X7"-1/2" DEEP, 2 COMPARTMENT, 18 GAUGE, TYPE 302 STAINLESS STEEL, 4 HOLE PUNCH, CHICAGO FAUCET 201-KHAB42805-50P GOODENOCK SWING SPOUT, CRUMB CUP STRAINER.	1/2"	1/2"	2"	1 1/2"	2,3.

NOTES:
1. FIXTURE TO BE WHITE.
2. PROVIDE ANGLE COMPRESSION STOP AND CHROME PLATED BRASS OR COPPER SUPPLY FOR WATER FIXTURES. PROVIDE CHROME-PLATED BRASS P-TRAP AND WASTE ARM FOR EXPOSED WASTE PIPING AT SINKS.
3. PLUMBING CONNECTION SIZES ON SCHEDULE MAY REQUIRE TRANSITION TO FIXTURE/TRM PIPE SIZES. ALL SIZES ON SCHEDULE ARE TO BE PROVIDED INSIDE PLUMBING WALLS.

GENERAL NOTES--THIS SHEET
1. ALL MECHANICAL EQUIPMENT TO BE UL OR ETL LISTED FOR ITS INTENDED USE.

GENERAL PLUMBING ENERGY NOTES
1. LAVATORY FAUCETS SHALL HAVE A MAXIMUM FLOW OF 2.5 GPM.
2. INSULATION THICKNESS FOR ALL HOT WATER PIPING SHALL BE AS FOLLOWS:
PIPE SIZE 1" & LESS 2" & LESS 4" & LESS 6" & LESS
INSUL. THK 1" 1" 1 1/2" 1 1/2"
NOTE: FOR PIPES IN UNHEATED SPACES, ADD 1/2" THICKNESS TO PIPE INSULATION SCHEDULED ABOVE.

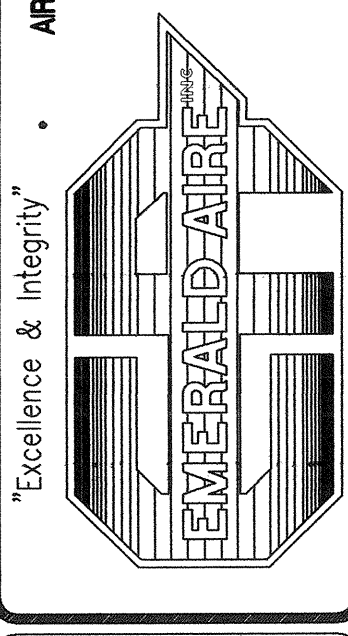
CONTROL SYSTEM POINT LIST

SYSTEM DESCRIPTION	EQUIP.	POINT DESCRIPTION	EMCS OUTPUT		EMCS INPUT		EMCS ALARM		EMCS APPLICATION/FUNCTION		REMARKS
			DIGITAL	ANALOG	DIGITAL	ANALOG	DIGITAL	ANALOG	DIGITAL	ANALOG	
RTU 3,4,5,6,7	F-1,2,3	EACH SYSTEM SUPPLY FAN									
		SUPPLY AIR									
		RETURN AIR									
		OUTSIDE AIR									
		FILTER									
		GAS HEAT									
		SMOKE DETECTORS									
		MIXING DAMPERS									
EXHAUST FANS		EXHAUST FANS 1,2,3									
SP-1		SUMP PUMP 1									
HWCP-1		DOMESTIC CIRC. PUMP									

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G. KNAPINSKI
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11/17/03
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AS NOTED
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302-426

M2