DIFFUSER SCHEDULE

TAG	MODEL	CFM RANGE	NECK	THROW	REMARKS
DROP IN T-BAR, PERFORATED FACE, MODULAR CORE, SUPPLY DIFFUSERS					
A	TITUS PMC	0-125	6"x6"	4 WAY	EARTHQUAKE TABS & O.B.D. SQUARE TO ROUND FITTING
B	TITUS PMC	130-225	8"x8"	4 WAY	EARTHQUAKE TABS & O.B.D. SQUARE TO ROUND FITTING
C	TITUS PMC	230-300	10"x10"	4 WAY	EARTHQUAKE TABS & O.B.D. SQUARE TO ROUND FITTING
D	TITUS PMC	305-400	12"x12"	4 WAY	EARTHQUAKE TABS & O.B.D. SQUARE TO ROUND FITTING
E	TITUS PMC	405-625	15"x15"	4 WAY	EARTHQUAKE TABS & O.B.D. SQUARE TO ROUND FITTING
F	TITUS PMC	630-905	18"x18"	4 WAY	EARTHQUAKE TABS & O.B.D. SQUARE TO ROUND FITTING
MODULAR CORE DIFFUSER					
G	TITUS MCD	0-125	6"x6"	4 WAY	SURFACE MOUNT & O.B.D. SQUARE TO ROUND FITTING
H	TITUS MCD	130-225	8"x8"	4 WAY	SURFACE MOUNT & O.B.D. SQUARE TO ROUND FITTING
J	TITUS MCD	230-350	10"x10"	4 WAY	SURFACE MOUNT & O.B.D. SQUARE TO ROUND FITTING
K	TITUS MCD	355-450	12"x12"	4 WAY	SURFACE MOUNT & O.B.D. SQUARE TO ROUND FITTING
L	TITUS MCD	455-550	14"x14"	4 WAY	SURFACE MOUNT & O.B.D. SQUARE TO ROUND FITTING
M	TITUS MCD	555-700	16"x16"	4 WAY	SURFACE MOUNT & O.B.D. SQUARE TO ROUND FITTING
DIFFUSERS FOR USE IN FABRIC CEILING TILES					
N	TITUS OMNI	5-100	6"ø	4 WAY	
P	TITUS OMNI	105-225	8"ø	4 WAY	
Q	TITUS OMNI	230-400	10"ø	4 WAY	
R	TITUS OMNI	405-600	12"ø	4 WAY	
S	TITUS OMNI	605-725	14"ø	4 WAY	
T	TITUS OMNI	730-900	15"ø	4 WAY	
DROP IN T-BAR, PERFORATED FACE, RETURN DIFFUSERS					
1	TITUS PMR	0-125	6"x6"	RETURN	EARTHQUAKE TABS & O.B.D. SQUARE TO ROUND FITTING
2	TITUS PMR	130-225	8"x8"	RETURN	EARTHQUAKE TABS & O.B.D. SQUARE TO ROUND FITTING
3	TITUS PMR	230-350	10"x10"	RETURN	EARTHQUAKE TABS & O.B.D. SQUARE TO ROUND FITTING
4	TITUS PMR	355-500	12"x12"	RETURN	EARTHQUAKE TABS & O.B.D. SQUARE TO ROUND FITTING
5	TITUS PMR	505-780	15"x15"	RETURN	EARTHQUAKE TABS & O.B.D. SQUARE TO ROUND FITTING
6	TITUS PMR	785-1000	18"x18"	RETURN	EARTHQUAKE TABS & O.B.D. SQUARE TO ROUND FITTING
SIDEWALL LINEAR GRILLE W/CONCEALED FASTENING, & BORDER TYPE 7					
7	TITUS CT-581	150 CFM/L.F.	6"	S.A./R.A.	2' DIFFUSER LENGTH, SIDEWALL WITH PLENUM OVAL TO ROUND FITTING.
8	TITUS CT-581	150 CFM/L.F.	6"	S.A./R.A.	4' DIFFUSER LENGTH, SIDEWALL WITH PLENUM OVAL TO ROUND FITTING.
9	TITUS CT-581	150 CFM/L.F.	6"	S.A./R.A.	4'-3" DIFFUSER LENGTH, SIDEWALL WITH PLENUM OVAL TO ROUND FITTING.
10	TITUS CT-581	150 CFM/L.F.	6"	S.A./R.A.	5' DIFFUSER LENGTH, SIDEWALL WITH PLENUM OVAL TO ROUND FITTING.
11	TITUS CT-581	150 CFM/L.F.	6"	S.A./R.A.	5'-3" DIFFUSER LENGTH, SIDEWALL WITH PLENUM OVAL TO ROUND FITTING.
12	TITUS CT-581	150 CFM/L.F.	6"	S.A./R.A.	6' DIFFUSER LENGTH, SIDEWALL WITH PLENUM OVAL TO ROUND FITTING.
13	TITUS CT-581	150 CFM/L.F.	6"	S.A./R.A.	7' DIFFUSER LENGTH, SIDEWALL WITH PLENUM OVAL TO ROUND FITTING.
14	TITUS CT-581	150 CFM/L.F.	6"	S.A./R.A.	8' DIFFUSER LENGTH, SIDEWALL WITH PLENUM OVAL TO ROUND FITTING.
15	TITUS CT-581	150 CFM/L.F.	6"	S.A./R.A.	9' DIFFUSER LENGTH, SIDEWALL WITH PLENUM OVAL TO ROUND FITTING.
16	TITUS CT-581	150 CFM/L.F.	6"	S.A./R.A.	10' DIFFUSER LENGTH, SIDEWALL WITH PLENUM OVAL TO ROUND FITTING.
17	TITUS CT-581	150 CFM/L.F.	6"	S.A./R.A.	12' DIFFUSER LENGTH, SIDEWALL WITH PLENUM OVAL TO ROUND FITTING.
18	TITUS CT-581	150 CFM/L.F.	6"	S.A./R.A.	4'-8" DIFFUSER LENGTH, SIDEWALL WITH PLENUM OVAL TO ROUND FITTING.
CEILING LINEAR DIFFUSER					
20	TITUS FL-30	AS NOTED	N/A	R.A.	SINGLE 3.0" SLOT WIDTH 4'-0" W/ NO PLENUM.
21	TITUS FL-30	200-350	10ø"	S.A.	SINGLE 3.0" SLOT WIDTH 4'-0" W/ TITUS PLENUM.
22	TITUS FL-30	350-470	12ø"	S.A.	SINGLE 3.0" SLOT WIDTH 4'-0" W/ TITUS PLENUM.
BAR TYPE SIDEWALL GRILLES					
AA	TITUS 300RL	0-750	30x14	SUPPLY	FIELD FABRICATED PLENUM O.B.D.
BB	TITUS 300RL	0-300	18"x6"	SUPPLY	FIELD FABRICATED PLENUM O.B.D.
DOOR LOUVERS					
L1	TITUS 1700L	AS NOTED	24x18	24x16	W/AUX FRAME.
L2	TITUS 1700L	AS NOTED	12x6	12x6	W/AUX FRAME.

AIR HANDLING UNIT SCHEDULE

SYMBOL	MFR & MODEL	SYSTEM TYPE	LOCATION	SERVICE	SUPPLY FAN NOMINAL CFM	T.S.P. IN. WG	E.S.P. IN. WG	FAN TYPE	WHEEL DIA. IN.	RPM MAX	CLASS	FAN/DR BHP	S.F. MOTOR DATA MOTOR HP	POWER V/P/HZ	MINIMUM OUTSIDE AIR CFM	WEIGHT	REMARKS	ANCHORAGE DETAIL
AH 1	TEMTROL WF	VAV	ROOF	LIBRARY	50,000	4.56	3	PLENUM	60"	880	2	67.23	75	460/3/60	–	13,000	PROVIDE WITH ABB ACH550 VFD W/E-BYPASS, SMOKE DETECTOR SHUTDOWN PER CMC 609. PROVIDE ANGLE RACK FOR PREFILTERS STAGGERED CHW COIL –PROVIDE EXTENDED PIPING TO EXT. CABINET FOR STAGGERED COIL	3 M5.02
AH 2	TEMTROL WF	VAV	ROOF	LIBRARY	50,000	4.56	3	PLENUM	60"	880	2	67.23	75	460/3/60	–	13,000	PROVIDE WITH ABB ACH550 VFD W/E-BYPASS, SMOKE DETECTOR SHUTDOWN PER CMC 609. PROVIDE ANGLE RACK FOR PREFILTERS –	3 M5.02

NOTES: SEE DETAIL 1 M5.02 – AIR HANDLER REQUIRES MULTIPLE DEMOUNTS AND FIELD INSTALLATION UNDER FACTORY REPRESENTATIVE SUPERVISION. 1

EXHAUST FAN SCHEDULE

EQUIP. NO.	MANUFACTURER & MODEL NUMBER	AREA (S) SERVED	TYPE	CFM	EXTERNAL STATIC PRESSURE	FAN RPM	DRIVE	SONES	MOTOR HP	BHP or WATTS	RPM	ELECTRICAL V/P/HZ	OPER. WEIGHT (LBS.)	REMARKS	ANCHORAGE DETAIL
EF 1	GREENHECK GB-200HP-30	WEST LARGE RESTROOMS	CENTRIFUGAL DOWNBLAST	5,085	1.25	1,550	BELT	27	3	2.61	1,725	460/3/60	139	BACKDRAFT DAMPER, 12" PITCHED ROOF CURB, HINGED CURB CAP, SWITCH, WIRING PIGTAIL	1 M5.01
EF 2	GREENHECK GB-180HP-15	EAST LARGE RESTROOMS	CENTRIFUGAL DOWNBLAST	3,465	1.25	1,514	BELT	19.6	1-1/2	1.44	1,725	460/3/60	139	BACKDRAFT DAMPER, 12" PITCHED ROOF CURB, HINGED CURB CAP, SWITCH, WIRING PIGTAIL	1 M5.01
EF 3	GREENHECK GB-081-6	WEST SMALL RESTROOMS	CENTRIFUGAL DOWNBLAST	640	0.5	1,599	BELT	10.1	1/6	0.15	1,725	115/1/60	50	BACKDRAFT DAMPER, 12" PITCHED ROOF CURB, HINGED CURB CAP, SWITCH, WIRING PIGTAIL	1 M5.01
EF 4	GREENHECK GB-081-6	EAST SMALL RESTROOMS	CENTRIFUGAL DOWNBLAST	655	0.5	1,623	BELT	10.4	1/6	0.16	1,725	115/1/60	50	BACKDRAFT DAMPER, 12" PITCHED ROOF CURB, HINGED CURB CAP, SWITCH, WIRING PIGTAIL	1 M5.01
EF 5	GREENHECK CHB-101-4	ELEC. EQUIP 153	CENTRIFUGAL SIDEWALL	560	0.5	1,150	BELT	5.9	1/4	0.08	1,725	115/1/60	58	BACKDRAFT DAMPER, 12" PITCHED ROOF CURB, HINGED CURB CAP, SWITCH, WIRING PIGTAIL	1 M5.01

NOTES: PROVIDE AND INSTALL BACKDRAFT DAMPERS ON ALL EXHAUST FANS.

AIR HANDLER COIL SCHEDULE

ASSOC. AHU SYMBOL	NOMINAL AIRFLOW CFM	COIL CAPACITY TOTAL MBH	COIL CAPACITY SENSIBLE MBH	AIR E.A.T. DB/ WB	AIR L.A.T. DB/ WB	WATER E.W.T. DEG. F	WATER L.W.T. DEG. F	WATER PR. DROP FT. HD.	WATER FLOW GPM	FACE AREA SQ. FT.	MAX F.V. FT./ MIN.	AIR PRESSURE DROP	ROWS	FIN SPACING FIN./ IN.	REMARKS
AH 1	50,000	2,498	1,714	80	67	45	55	8.1	498	120	500	0.81	6	10	5/8" COPPER TUBE (0.02" TUBE WALL THK); 0.008 ALUMINUM FINS; STAINLESS CASING; STAINLESS STEEL CONDENSATE DRAIN PAN. HEIGHT OF CONDENSATE DRAIN CONNECTION AT CABINET SHALL ALLOW FOR TRAP REQUIREMENTS.
AH 2	50,000	2,498	1,714	80	67	45	55	8.1	498	120	500	0.81	6	10	5/8" COPPER TUBE (0.02" TUBE WALL THK); 0.008 ALUMINUM FINS; STAINLESS CASING; STAINLESS STEEL CONDENSATE DRAIN PAN. HEIGHT OF CONDENSATE DRAIN CONNECTION AT CABINET SHALL ALLOW FOR TRAP REQUIREMENTS.

1 SPLIT SYSTEM – COOLING ONLY – CONDENSER UNIT SCHEDULE

EQUIP. NO.	MFR. MODEL	FAN COIL SERVED	LINE SIZE VAPOR	LINE SIZE LIQUID	COOLING CAPACITY NOMINAL TOTAL TONS	NET COOLING BTUH	NET SENSIBLE BTUH	TEMP E.A.T.	E.A. db/wb	SEER	ELECTRICAL COMPRESSOR R.L.A.	COMPRESSOR L.R.A.	FAN F.L.A.	POWER MCA	POWER MOCP	POWER FLA.	POWER V/PH/HZ	OPER. WT. LBS	EQUIPMENT DIMENSIONS LxWxH(IN.)	REMARKS	ANCHORAGE DETAIL
CU 1-1	CARRIER 38AN-009	FC 1-1	1/2	1/4	3/4	8,500	5,730	95	80/67	11.0	7.6	46.5	0.76	12.1	15.0	12.86	115/1ø/60	55	36 x 14-1/2 x 25-1/8	UNIT MAY ONLY BE USED WITH 402NB FAN COIL. INSTALL PER MANUFACTURERS RECOMMENDATIONS.	6 M5.02
CU 2-1	CARRIER 38AN-009	FC 2-1	1/2	1/4	3/4	8,500	5,730	95	80/67	11.0	7.6	46.5	0.76	12.1	15.0	12.86	115/1ø/60	55	36 x 14-1/2 x 25-1/8	UNIT MAY ONLY BE USED WITH 402NB FAN COIL. INSTALL PER MANUFACTURERS RECOMMENDATIONS.	6 M5.02
CU 3-1	CARRIER 38AN-009	FC 3-1	1/2	1/4	3/4	8,500	5,730	95	80/67	11.0	7.6	46.5	0.76	12.1	15.0	12.86	115/1ø/60	55	36 x 14-1/2 x 25-1/8	UNIT MAY ONLY BE USED WITH 402NB FAN COIL. INSTALL PER MANUFACTURERS RECOMMENDATIONS.	2 M5.02

NOTE: ALL UNITS ARE PROVIDED WITH REFRIGERANT R-22.

1 SPLIT SYSTEM – COOLING ONLY – FAN COIL UNIT SCHEDULE

EQUIP. NO.	MFR. & MODEL	AREA SERVED	FAN CFM COIL TYPE	FAN CFM ESP(IN)	FAN CFM HIGH	COOLING CAPACITY NOMINAL TOTAL TONS	NET COOLING BTUH	TEMP E.A.T.	E.A. db/wb	SEER	ELECTRICAL FAN WATTS	FAN HP	FAN F.L.A.	POWER MCA	POWER MOCP	POWER FLA.	POWER V/PH/HZ	OPER. WT. LBS	FILTERS	REMARKS	ANCHORAGE DETAIL
FC 1-1	CARRIER 40QNB-009	ELEV. MACH. RM.	HIGH WALL	0.35	260	3/4	8,500	95	N/A	10.0	35	1/16	0.41	N/A	N/A	0.23	115/1ø/60	19	1-16-1/2"x16-1/2"	FAN COIL (FC 2-1) MUST BE ELECTRICALLY CONNECTED TO THE OUTDOOR CONDENSING UNIT (CU 2-1). USE FOR PROCESS COOLING.	7 M5.02
FC 2-1	CARRIER 40QNB-009	IDF 282	HIGH WALL	0.35	260	3/4	8,500	95	N/A	10.0	35	1/16	0.41	N/A	N/A	0.23	115/1ø/60	19	1-16-1/2"x16-1/2"	FAN COIL (FC 2-1) MUST BE ELECTRICALLY CONNECTED TO THE OUTDOOR CONDENSING UNIT (CU 2-1). USE FOR PROCESS COOLING.	7 M5.02
FC 3-1	CARRIER 40QNB-009	IDF 360	HIGH WALL	0.35	260	3/4	8,500	95	N/A	10.0	35	1/16	0.41	N/A	N/A	0.23	115/1ø/60	19	1-16-1/2"x16-1/2"	FAN COIL (FC 3-1) MUST BE ELECTRICALLY CONNECTED TO THE OUTDOOR CONDENSING UNIT (CU 3-1). USE FOR PROCESS COOLING.	7 M5.02

1 COOLING ONLY – FAN COIL UNIT SCHEDULE

SYMBOL	MFR & MODEL	NOMINAL AIR CFM	OUTSIDE AIR CFM	RETURN AIR CFM	SUPPLY AIR CFM	E.S.P IN Wg	ELECTRICAL VOLT PHASE	MOTOR SPEED	MOTOR HP	COOLING NET COOLING (MBTUH)	COIL CONFIG.	GPM	E.W.T. (°F)	L.W.T. (°F)	MAX W.P.D. FT.H20	E.A.D.B. (°F)	E.A.W.B. (°F)	L.A.T.D.B. (°F)	L.A.T.W.B. (°F)	MERV 8 FILTER SIZE (IN.)	OPERATING WT (LBS)	DIMENSIONS (LxWxH)	REMARKS/ACCESSORIES	ANCHORAGE DETAIL
FC 1-2	CARRIER 42BHC40	4000	0	4000	4000	1.00	208 1ø	1,725	2	112.7	6 ROWS	19	45	55	7.5	75	60	55	55	(2) 29"x29"x2"	560	44"x63"x31"	VIBRATION ISOLATION HANGER AND SEISMIC RESTRAINT. 2-WAY CONTROL VALVE, AUTOMATIC SHUT DOWN. USE FOR PROCESS COOLING.	1 M5.03
FC 1-3	CARRIER 42BHC40	4000	0	4000	4000	1.00	208 1ø	1,725	2	112.7	6 ROWS	19	45	55	7.5	75	60	55	55	(2) 29"x29"x2"	560	44"x63"x31"	VIBRATION ISOLATION HANGER AND SEISMIC RESTRAINT. 2-WAY CONTROL VALVE, AUTOMATIC SHUT DOWN. USE FOR PROCESS COOLING.	1 M5.03

NOTES: PROVIDE WITH AUTOMATIC AIRVENT WITH SHUT OFF VALVE ON DISCHARGE, SECONDARY DRAIN PAN (DO NOT BLOCK FILTER ACCESS WITH SECONDARY DRAIN PAN), SINGLE SOURCE ELECTRICAL CONNECTION.

VARIABLE SPEED DRIVE SCHEDULE

SYMBOL	MANUFACTURER & MODEL NO.	VSD SERVICE	AMP RATING	MOTOR DATA HP	MOTOR DATA RPM	MOTOR DATA V/PH/HZ	WEIGHT	REMARKS	EQUIPMENT BEING SERVED	ANCHORAGE DETAIL
VSD 1	ABB ACH550	AH-1 S.A. FAN	96	75	1800	460/3/60	460/3/60	NEMA 3R ENCLOSURE; MANUAL BYPASS ON, OFF. AUTO	AH 1	6 M5.01
VSD 2	ABB ACH550	AH-2 S.A. FAN	96	75	1800	460/3/60	460/3/60	NEMA 3R ENCLOSURE; MANUAL BYPASS ON, OFF. AUTO	AH 2	6 M5.01

GENERAL NOTES:

1. PROVIDE DDC INTERFACE FOR TELETROL CONTROLS.
2. SEE ELECTRICAL DRAWINGS FOR ELECTRICAL INFORMATION.
3. VARIABLE SPEED-DRIVE (VSD) START-UP SHALL BE DONE BY MANUFACTURER REPRESENTATIVE IN THE PRESENCE OF ELECTRICAL AND ENERGY MANAGEMENT SYSTEM CONTRACTORS.
4. ALL DRIVES SHALL HAVE INTEGRAL MANUAL BY-PASS.

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Agency Approval

No.	Date	Revision/Issue
1		ADDENDUM #4

Project Name

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Checked By | Drawn By

Sheet Title

MECHANICAL EQUIPMENT SCHEDULES

Sheet Number

M0.02

Project Number 04-111 | Scale N.T.S.

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