CHILLER

SYMBOL	MAKE	MODEL	DESCRIPTION	DUTY	CAPACITY (TONS)	POWER INPUT (kW)	FULL LOAD (kW/TON)	IPLV EFF. (kW/TON)	IPLV EFF. (EER)	REFRIG.	MECH. RM. EXH. (CFM)	EVAP. FLOW (USGPM)	ENT. CH.W. TEMP. (°F)	LEV. CH.W. TEMP. (°F)	CH.W. P.D. (FT.)	No. OF PASS	AMB. T (°F)	FOULING FACTOR	COND. W. FLOW (USGPM)	ENT. COND. W. TEMP. (°F)	LVG. COND. W. TEMP. (°F)	COND. W. P.D. (FT)	No. OF PASS	FOULING FACTOR	POWER SUPPLY	MOTOR SIZE (kW)	MOTOR FLA	MCA	MOCP	OPERATING WT. (LBS)	REMARKS
CH-1	YORK	YKA4ASQ3-EHGS	WATER COOLED CENTRI. CHILLER	COMFORT	240	147	0.613	0.403	-	R-134A	3000	576	54	44	7.1	2	-	0.0001	720	85	95	15.8	2	0.00025	575/3/60	145	164	218	---	14,532	c/w UNIT MOUNTED VFD, REFRIGERATION MONITORING SYSTEM, 50MM ISOLATOR & THICK NOISE PAD PER ACOUSTIC ENGINEER'S REVIEW REPORT, OPTISOUND & AUTOMATIC HOT GAS BYPASS TO 10%.

AIR HANDLING UNIT

SYMBOL	MANUFACTURER	MODEL	DUTY	CHILLED WATER COIL SECTION: AIR FLOW (CFM)	EAT (DB/WB) (°F)	LAT (DB/WB) (°F)	TOTAL CAP. (MBH)	SEN. CAP. (MBH)	EWT (°F)	LWT (°F)	FLOW (USGPM)	FLUID	WPD (FT.)	APD (IN.)	FACE AREA (SQFT)	FACE VEC. (FPM)	SIZE (HxL) (FT.)	ROWS	FPI	HEATING COIL SECTION: AIR FLOW (CFM)	EAT (DB/WB) (°F)	LAT (DB/WB) (°F)	TOTAL CAP. (MBH)	EWT (°F)	LWT (°F)	FLOW (USGPM)	FLUID	WPD (FT.)	APD (IN.)	FACE AREA (SQFT)	FACE VEC. (FPM)	SIZE (FT)	ROWS	FPI	SUPPLY FAN SECTION ESP/HP	REMARKS
AHU-1	JOHNSON CONTROL	SOLUTION INDOOR AIR HANDLER 66x90	FRESH AIR	11,345 (14,800 MAX)	95/76	59.2/58.4	471.3	296.7	45	55	93.9	WATER	2.7	0.32	21.0	379	3.3x6.4	3	12	11,345 (14,800 MAX)	-10.0	90.4	1325.9	155	135	146.2	40% E GLYCOL	6.8	0.19	29.1	364	7.7x 5.45	2	11	3.5" / 20	FAN TO C/W ABB VFD /W BYPASS, CLG. COIL TO HAVE FACE AND 25% BYPASS DAMPER, INLET MOTORIZED DAMPER, FREEZSTAT TO SHUT DOWN FAN AND INLET MOTORIZED DAMPER. MERV 13 FILTERS AND MERV 8 PREFILTER, WITH MAGNAHELIC GAUGES TO MONITOR DIFFERENTIAL PRESSURE OF AIR FILTERS. UNIT SHALL HAVE SPARE CAPACITY TO SUPPLY 14,800CFM AIRFLOW.

FAN COIL UNIT (IN-SUITE WITH INTEGRATED HRV)

SYMBOL	MAKE	MODEL	DESCRIPTION	DUTY	AIR FLOW	E.S.P. (IN)	HP	V/Φ/Hz	CHILLED WATER COIL PERFORMANCE: SUPPLY AIR (ERV) (CFM)	SUPPLY AIR (COIL) (CFM)	ERV INLET AIR TEMP (°F)	ERV SUPPLY AIR TEMP (°F)	LAT (°F)	TOTAL CAP. (MBH)	SEN. CAP (MBH)	EWT (°F)	LWT (°F)	FLOW (USGPM)	WPD (FT.)	HEATING WATER COIL PERFORMANCE: SUPPLY AIR (ERV) (CFM)	SUPPLY AIR (COIL) (CFM)	ERV INLET AIR TEMP (°F)	ERV SUPPLY AIR TEMP (°F)	LAT (°F)	TOTAL CAP. (MBH)	EWT (°F)	LWT (°F)	FLOW (USGPM)	WPD (FT.)	REMARKS
FCU-1T	UNILUX	DLE450-ERV100	STACKED VERTICAL 2 PIPE	IN-SUITE	450	0.3	1/3	115/1/60	100	350	89.6	82.2	53.7	9.6	7.9	45	54.5	2	1.2	100	350	-13	35.4	128	21.3	140	119	2	1.2	C/W ECM MOTOR 1.5 KW HEATER AND RISERS, RISER SIZE SHALL MATCH RISER DIAGRAM, 3 WAY CONTROL VALVE FOR TOP & BOTTOM OF STACK, 2 WAY CONTROL VALVE FOR REMAINING UNITS, THERMAL METERS, PROGRAMMABLE HEATING/COOLING THERMOSTAT (HONEYWELL TB7100A1000 OR EQUAL), RETURN AIR LOUVRE. FCU TO BE PLACED ON RAISED LEGS SUCH THAT THE TOP OF THE SIDEWALL SUPPLY AIR GRILLE ARE TO BE 300mm BELOW CEILING. FCU - 1T TO BE c/w MERV 8 FILTER. FCU - 1.5T, 2T TO BE c/w, MERV 13 FILTER.
FCU-1.5T	UNILUX	DLE600-ERV100	STACKED VERTICAL 2 PIPE	IN-SUITE	600	0.3	1/3	115/1/60	100	500	89.6	82.2	54.2	13.5	11	45	55.8	2.5	2.6	100	500	-13	35.4	122	27.1	140	118	2.5	2.6	
FCU-2T	UNILUX	DLE800-ERV100	STACKED VERTICAL 2 PIPE	IN-SUITE	800	0.3	1/3	115/1/60	100	700	89.6	82.2	54.6	18.4	15.2	45	55.5	3.5	5.2	100	700	-13	35.4	124	39.4	140	118	3.5	5.2	

FAN COIL UNIT (IN SUITE WITHOUT ERV)

SYMBOL	MAKE	MODEL	DESCRIPTION	DUTY	AIR FLOW	ESP (IN)	HP	V/Φ/HZ	CHILLED WATER COIL PERFORMANCE: EAT (DB/WB) (°F)	LAT (DB/WB) (°F)	TOTAL CAP. (MBH)	SEN. CAP (MBH)	EWT (°F)	LWT (°F)	FLOW (USGPM)	WPD (FT.)	HEATING WATER COIL PERFORMANCE: EAT (DB) (°F)	LAT (DB) (°F)	TOTAL CAP. (MBH)	GLYCOL	EWT (°F)	LWT (°F)	FLOW (USGPM)	WPD (FT.)	WEIGHTS (LBS)	REMARKS
TFC-1T	UNILUX	DLE450	2-PIPE VERTICAL FAN COIL	IN-SUITE	450	0.2	1/6	110/1/60	78/67	55.7/54.5	14.5	10	45	55	2.6	2.5	70	100	26.8	0%	140	120	2.6	2.5		C/W ECM MOTOR, 1.5KW HEATER AND RISERS, RISER SIZE SHALL MATCH RISER DIAGRAM, 3 WAY CONTROL VALVE FOR TOP & BOTTOM OF STACK, 2 WAY CONTROL VALVE FOR REMAINING UNITS, THERMAL METERS, PROGRAMMABLE HEATING/COOLING THERMOSTAT (HONEYWELL TB7100A1000 OR EQUAL), RETURN AIR LOUVRE, MERV 8 FILTER. FCU TO BE PLACED ON RAISED LEGS SUCH THAT THE TOP OF THE SIDEWALL SUPPLY AIR GRILLE ARE TO BE 300mm BELOW CEILING.
TFC-1.5T	UNILUX	DLE600	2-PIPE VERTICAL FAN COIL	IN-SUITE	530	0.2	1/6	110/1/60	78/67	55.2/53.8	19.2	12.6	45	55	3.8	6.3	70	100	32.4	0%	140	120	3.8	6.3		
TFC-2T	UNILUX	DLE800	2-PIPE VERTICAL FAN COIL	IN-SUITE	690	0.2	1/3	110/1/60	78/67	54.9/53.7	26.1	16.8	45	55	5.5	11	70	100	42.5	0%	140	120	5.5	11		

FAN COIL UNIT (AMENITY AND COMMON AREAS)

SYMBOL	MAKE	MODEL	DESCRIPTION	DUTY	AIR FLOW (CFM)	ESP (IN)	HP	V/Φ/HZ	CHILLED WATER COIL PERFORMANCE: EAT (DB/WB) (°F)	LAT (DB/WB) (°F)	TOTAL CAP. (MBH)	SEN. CAP (MBH)	EWT (°F)	LWT (°F)	FLOW (USGPM)	WPD (FT.)	HEATING WATER COIL PERFORMANCE: EAT (DB) (°F)	LAT (DB) (°F)	TOTAL CAP. (MBH)	GLYCOL	EWT (°F)	LWT (°F)	FLOW (USGPM)	WPD (FT.)	BUILT-IN DX COIL SECTION: EAT (DB/WB) (°F)	LAT (DB/WB) (°F)	TOTAL CAP. (MBH)	SEN. CAP (MBH)	REFRIG. TYPE	COIL FV (FPM)	SUCTION CONN. (IN)	LIQUID CONN. (IN)	HORIZONTAL DISCHARGE CONDENSER: SYMBOL	MODEL	V/Φ/Hz	MCA	FUSE SIZE	WEIGHT (LBS)	REMARKS
VFCU-1.5T	YORK	FCC-08	2-PIPE VERTICAL FAN COIL	AMENITY & LOBBY	629	0.3"	1/3	115/1/60	80/67	59.2/56.8	20.2	14.5	45	55	4.1	7	70	118.8	33.3	-	140	123.5	4.1	6.3	80/67	59.2/56.7	20.5	14.5	R-410	-	5/8"	5/8"	CU-1.5T	TCH01854153	208/1/60	11.8	20	100	C/W ECM MOTOR, 3 WAY CONTROL VALVE, PROGRAMMABLE MULTI-STAGE THERMOSTAT (JOHNSON CONTROLS T600MSP-4 OR EQUAL), RETURN AIR LOUVRE, MERV 13 FILTER. ALSO C/W SPECIFIED DX COOLING COIL (C/C) INSTALLED WITHIN FCU WITH REFRIGERANT PIPES CONNECTED TO MATCHING YORK HORIZONTAL DISCHARGE CONDENSER (CU) MODEL TCHD SERIES, R410A REPLACEMENT.
VFCU-2T	YORK	FCC-10	2-PIPE VERTICAL FAN COIL	AMENITY & LOBBY	850	0.3"	1/3	115/1/60	80/67	60.6/58.2	24	18.3	45	55	4.8	2.3	70	111.3	43.7	-	140	121.5	4.8	1.5	80/67	59.8/57.4	25.9	19	R-410	-	5/8"	5/8"	CU-2T	TCH02454153	208/1/60	17.4	30	120	
VFCU-2.5T	YORK	FCC-12	2-PIPE VERTICAL FAN COIL	AMENITY & LOBBY	1,056	0.5"	1/3	115/1/60	80/67	60.9/59.2	29.85	22.4	45	55	6	3.3	70	115.8	52.6	-	140	122.2	6	2.4	80/67	60.9/58.2	29.9	22.4	R-410	-	5/8"	5/8"	CU-2.5T	TCH03054153	208/1/60	17.5	30	150	
VFCU-3T	YORK	FCC-16	2-PIPE VERTICAL FAN COIL	AMENITY & LOBBY	1,206	0.5"	(2) 1/3	115/1/60	80/67	58.6/56.6	39.7	28.6	45	55	8	3.6	70	120.7	66.5	-	140	123.1	8	2.8	80/67	58.1/35.9	42	29.4	R-410	-	5/8"	5/8"	CU-3T	TCH03654353	208/3/60	17.5	30	220	
HFCU-5T(HH)	YORK	AHI-20	2-PIPE HORIZONTAL FAN COIL	GARBAGE/RECYCLING RM.	2,100	0.6"	1.5	208/3/60	80/67	60/57.5	63.6	46.5	45	55	12.7	3.5	40	118	109.7	-	140	122.4	12.7	2.9	80/67	60.6/58	60.5	45.2	410A	411	7/8	5/8	CU-5T	TCH6054353	208/3/60	21	35	243	

SPLIT HEAT PUMP SYSTEM

SYMBOL	MAKE	MODEL	DESCRIPTION	AIR FLOW (CFM)	ESP	TOT. HTG. CAP. (MBH)	TOT. CLG. CAP. (MBH)	SEN. CLG. CAP. (MBH)	MCA	MOCP	V/Φ/Hz	WT. (LBS)	REMARKS
HP-3T	YORK	MA14D	13+ SEER LATITUDE SPLIT HEAT PUMP SYSTEM	1,200	0.6	22.4	34.9	26.6	3.7	15	208/1/60	250	C/W RESPECTIVE OUTDOOR CONDENSING UNIT (HCU-3T) YORK # EIRD036S06, 19.8 MCA, 30 MOCP, 208V/1Φ/60Hz, PROGRAMMABLE HEATING/COOLING THERMOSTAT & LOW AMBIENT KIT

INSTANTANEOUS INDIRECT WATER HEATER

SYMBOL	MAKE	MODEL	DESCRIPTION	TANK VOLUME (US GAL)	HEAT TRANSFER AREA (SQ/ FT.)	UTILITY CONNECTION	BOILER CONNECTION	DIMENSIONS	REMARKS
T-1 to T-5	TURBOMAX	T-109	INSTANTANEOUS INDIRECT DOMESTIC HOT WATER HEATER	119	58.9000	2"	2"	29"(DIA)x74"(H)	-

COOLING TOWER SCHEDULE

SYMBOL	MAKE	MODEL	DESCRIPTION	DUTY	NOM. TONS	GPM	P.D. FT.	ENTER WTR °F	LVG WTR °F	CFM	FAN HP	FAN HTR	WEIGHT (LBS)	SIZE	REMARKS
CT-1	BALTIMORE AIRCOIL	XES3E-8518-05K	OPEN COOLING TOWER SINGLE CELL	CONDENSER WATER	240	720	-	95	85	68,230	10	NIL	15,050	18'Wx8'Lx9'H	C/W ABB VFD WITH BACNET COMPATIBLE WITH SIEMENS CONTROLS, ACCESS LADDER & HANDRAILS, CONTROL, POWER PANEL, 2.5 INCHES DEFLECTION ISOLATOR, WITH EXTRA DOUBLE-LAYER PADS BELOW (NSN).

BOILER SCHEDULE

SYMBOL	MAKE	MODEL	DESCRIPTION	DUTY	INPUT (MBH)	OUTPUT (MBH)	GPM	ΔT	P.D. FT	ENTER WTR °F	LVG WTR °F	WGHT (LBS)	VENT FLUE	INTAKE FLUE	SIZE	GAS	WATER CONNECTION	ELECTRICAL VOLTAGE	ELECTRICAL AMPERE	MOCP	CIR HP	CIR VOLTAGE	REMARKS
B-1,2	CAMUS	DFX-3001	88% EFF. COPPERTUBE BOILER	COMBINED HTG.	3,000	2,640	167.9	30	31.5	130	160	1,550	10"Φ	12"Φ	30"x32"x80"	1-1/2"Φ	3"Φ	230/1 VAC	16		3	3 PHASE	C/W FLOW SWITCH, CIRCULATOR, LOW WATER LEVEL CUT OUT, TEMPERATURE & PRESSURE GAUGES, PRESSURE RELIEF VALVES, AUX CONTACT FOR BUILDING AUTOMATION SYSTEM, OUTDOOR SENSOR AND BOILER CONTROL, H.O.A. STARTER FOR BOILER & CIRCULATOR.
B-3	CAMUS	DFX-2001	88% EFF. COPPERTUBE BOILER	COMBINED HTG.	2,000	1,760	111.9	30	29.5	130	160	1,300	9"Φ	12"Φ	30"x32"x67"	1-1/4"Φ	3"Φ	120 VAC	11		1.5	3 PHASE	

PUMP SCHEDULE (ALL MOTORS SHALL BE HI-EFF. TYPE, ABB VFD WITH BACNET COMPATIBLE WITH SIEMENS CONTROLS.)

SYMBOL	MAKE	MODEL	DESCRIPTION	DUTY	GPM	FT HEAD	RPM	HP	V/Φ/HZ	WEIGHT	REMARKS
DCWBP-1 DCWBP-2	ARMSTRONG	SERIES 4700 BOOSTER SYSTEM 6825	DOMESTIC BOOSTER DUPLEX PACKAGE SYSTEM	DOMESTIC COLD WATER BOOSTER	135	167	3,600	10	575/3/60	-	C/W VFD, CONTROL PANEL
CWP-1,2	ARMSTRONG	4300 0611-030.0	VERTICAL IN-LINE	CONDENSER WATER	720	120	1,795	30	575/3/60	-	c/w SUCTION GUIDE, TRIPLE DUTY VALVE & H.O.A STARTER
HWP-1,2	ARMSTRONG	4300 0610-015.0	VERTICAL IN-LINE	HEATING WATER	450	75	1,650	15	575/3/60	-	c/w SUCTION GUIDE, TRIPLE DUTY VALVE & ONE VFD PER PUMP
SWP-1,2	ARMSTRONG	4300 0610-015.0	VERTICAL IN-LINE	SYSTEM WATER	575	63	1,614	15	575/3/60	-	c/w SUCTION GUIDE, TRIPLE DUTY VALVE, ONE VFD PER PUMP, 150mm INTERTIA BLOCK /W SPRINGS, EXPANSION JOINTS PER ACOUSTIC ENGINEER'S REPORT.
DHWRP-1, 2	ARMSTRONG	106-1.5D-0.75	IN-LINE CIRCULATOR	DOMESTIC HOT WATER	30	30	1800	0.5	575 / 3 /60	-	c/w ALL BRONZE CONSTRUCTION & MAGNETIC STARTER
GP-1	ARMSTRONG	1060-3D-3 HP	INLINE CIRCULATOR	AHU-1 EGLYCOL	185	35	1,800	3	575/3/60	-	c/w HOA STARTER

PLATE HEAT EXCHANGERS

SYMBOL	MAKE	MODEL	DESCRIPTION	DUTY	HEAT TRANSFER (MBH)	SIDE 1: ENTER	LWT	FLOW (GPM)	P.D. (psi)	FLUID	SIDE 2: ENTER	LWT	FLOW (GPM)	P.D. (psi)	FLUID	WGHT (LBS)	REMARKS
HX-1	ARMSTRONG	S-M35X-750-68	PLATE TYPE HEAT EXCHANGER	AHU-1 HTG.	1650.6	160	140	168	3.21	HW	134.9	155	182.7	3.21	40% ETHYLENE GLYCOL	1,395	c/w SS304 PLATES, NBR GASKET, 150 PSIG PRESSURE RATING.

HOT WATER EQUIPMENT SCHEDULE

SYMBOL	MAKE	MODEL	DESCRIPTION	DUTY	HEAT TRANSFER (MBH)	HOT WATER COIL: ENTER	LWT	FLOW (GPM)	CFM	S.P.	H.P.	V/Φ/Hz	WGHT (LBS)	REMARKS
FFH-A	ENG. AIR	CUH3	HW FF HEATER	HEATING	14	160	140	1.4	300		1/25	110/1/60	120	c/w THERMOSTAT
FFH-B	ENG. AIR	CUH3	HW FF HEATER (CEILING MOUNTED)	HEATING	14	160	140	1.4	300		1/25	110/1/60	120	c/w THERMOSTAT
UH-A	ENG. AIR	H4	H.W. UNIT HEATER	HEATING	45.1	160	140	4.1	1,000	-	1/12	115/1/60	112	c/w THERMOSTAT
UH-B	ENG. AIR	H2	UNIT HEATER	HEATING	37.9	160	140	3.9	620	-	1/20	115/1/60	130	c/w THERMOSTAT
FT-A	ENG. AIR	WF	FIN TUBE	FLOOR HEATING	2.2	160	140	0.3	-	-	-	-	-	4'-0 LENGTH 1-1/4" DIA, 150 PSI WORKING PRESSURE

DEHUMIDIFIER

SYMBOL	MAKE	MODEL	DESCRIPTION	DUTY	CFM	ESP	TOT. HTG. CAP. (MBH)	TOT. CLG. CAP. (MBH)	MCA (A)	V/Φ/HZ	MOCP	WEIGHT (LB)	REMARKS
DH-A	SERESCO	NE-002-VH-1-AINH0601W0G4AN3	DEHUMIDIFIER	WHIRLPOOL	600	0.5"	15	24.9	5	575/3/60	15	400	C/W UNIT MOUNTED HOT WATER COIL, 15 MBH @ 160°F EWT, OUTDOOR CONDENSING UNIT SERESCO # NC-B-1V, 32 MBH, 2 MCA, 15 MOCP, 575V/1Φ/60Hz, REMOTE OPERATOR PANEL

SPLIT AC SYSTEM - COOLING ONLY

SYMBOL	MAKE	MODEL	DESCRIPTION	AIR FLOW (CFM)	ESP	TOT. CLG. CAP. (MBH)	SEN. CLG. CAP. (MBH)	MCA	MOCP	V/Φ/Hz	WT. (LBS)	REMARKS
SAC-1T	CARRIER	40MVC012---3	13+ SEER SPLIT AC SYSTEM - COOLING ONLY	435	--	12.48	9.11	--	--	208/1/60	25	C/W RESPECTIVE OUTDOOR CONDENSING UNIT (SCU-1T) CARRIER MODEL 38MVC012---3, 9 MCA, 15 MOCP, 208V/1Φ/60Hz, CONDENSATE PUMP, PROGRAMMABLE COOLING THERMOSTAT & ULTRA LOW AMBIENT KIT

FAN SCHEDULE

NOTE:
- ALL MOTOR 1 HP AND ABOVE SHALL BE HIGH-EFFICIENCY TYPE - ALL FANS 1/2 HP AND LARGER TO BE C/W H.O.A. STARTER
- VFD TO BE ABB C/W BACNET COMPATIBLE WITH SIEMENS CONTROLS

SYMBOL	MAKE	MODEL	DESCRIPTION	DUTY	CFM	ESP (")	RPM	HP	V/Φ/Hz	FAN DIMENSIONS	WALL OPENING	WEIGHT	REMARKS
EF-A	ZONEX	DBF150	INLINE	DRYER EXHAUST	140	0.4	1290	72 W	120/1/60			11	C/W LINT TRAP, RELAY TO INTERLOCK /W DRYER.
EF-B	ZONEX	GM130	INLINE	WASHROOM EXHAUST	100	0.25	700	63W	120/1/60			14	C/W B.D.D., EXTRA LARGE HOUSING & SLIDING DAMPER, SOUND DATA NOT MORE THAN 1 SONE & ENERGY STAR COMPLIANT.
EF-1	CARNES	LYDK10K	WALL PROPELLER	P-2 RESI. STORAGE ROOM EXHAUST	300	0.125	1193	1/6	120/1/60			40	C/W MOTORIZED DAMPER, WALL HOUSING WITH GUARD, SWITCH, DAMPER GUARD & SPEED CONTROLLER.
EF-2	CARNES	LYDK15K	WALL PROPELLER	P-2 RESI. STORAGE ROOM 1 EXHUAST	1200	0.125	867	1/6	120/1/60			50	C/W MOTORIZED DAMPER, WALL HOUSING WITH GUARD, SWITCH, DAMPER GUARD & SPEED CONTROLLER.
EF-3	CARNES	LYDK12K	WALL PROPELLER	P-2 RESI. STORAGE ROOM 2 EXHUAST	900	0.125	1240	1/6	120/1/60			42	C/W MOTORIZED DAMPER, WALL HOUSING WITH GUARD, SWITCH, DAMPER GUARD & SPEED CONTROLLER.
EF-4	CARNES	VBK15L	IN-LINE	P-2 RESI. STORAGE ROOM 3 EXHUAST	1150	0.125	881	1/4	120/1/60				C/W BDD, ISOLATION KIT, AND SWITCH.
EF-5	CARNES	LYDK10K	WALL PROPELLER	P-2 STORAGE ROOM	300	0.125	1193	1/6	120/1/60			40	C/W MOTORIZED DAMPER, WALL HOUSING WITH GUARD, SWITCH, DAMPER GUARD & SPEED CONTROLLER.
EF-6	CARNES	LYDK12K	WALL PROPELLER	P-1 GENERATOR ROOM EXHAUST	900	0.125	1240	1/6	120/1/60			42	C/W MOTORIZED DAMPER, WALL HOUSING WITH GUARD, THERMOSTAT, DAMPER GUARD & SPEED CONTROLLER.
EF-7	CARNES	LYDK10K	WALL PROPELLER	P-1 LOCKER ROOM EXHAUST	300	0.125	1193	1/6	120/1/60			40	C/W MOTORIZED DAMPER, WALL HOUSING WITH GUARD, SWITCH, DAMPER GUARD & SPEED CONTROLLER.
EF-8	CARNES	LYDK09H	WALL PROPELLER	P-1 CONDO CCU / SECURITY ROOM EXHUAST	100	0.125	1031	1/12	120/1/60			35	C/W MOTORIZED DAMPER, WALL HOUSING WITH GUARD, THERMOSTAT, DAMPER GUARD & SPEED CONTROLLER.
EF-9	CARNES	LYDK12K	WALL PROPELLER	P-1 AHU ROOM EXHAUST	700	0.375	1679	1/6	120/1/60			42	C/W MOTORIZED DAMPER, WALL HOUSING WITH GUARD, THERMOSTAT, DAMPER GUARD & SPEED CONTROLLER.
EF-10	CARNES	VBK13R	IN-LINE	P-1 CHILLER ROOM EXHAUST	3,000	0.375	955	3/4	575/3/60			162	C/W B.D.D., ISOLATION KIT, THERMOSTAT & H.O.A. STARTER2- SPEED MOTOR (1 ST SPEED TO T-STAT, FULL SPEED TO REFRIGE SENSOR)
EF-11	CARNES	LWBK245	WALL PROPELLER	P-1 TRANSFORMER ROOM EXHAUST	4500	0.375	964	1	575/3/60			81	C/W MOTORIZED DAMPER, WALL HOUSING WITH GUARD, THERMOSTAT, DAMPER GUARD & SPEED CONTROLLER.
EF-12	CARNES	LYDK15K	WALL PROPELLER	P-1 RESI. STORAGE ROOM EXHAUST	1200	0.125	867	1/6	120/1/60			50	C/W MOTORIZED DAMPER, WALL HOUSING WITH GUARD, SWITCH, DAMPER GUARD & SPEED CONTROLLER.
EF-13	CARNES	LYDK10K	WALL PROPELLER	P-1 BIKE STORAGE EXHAUST	100	0.125	1118	1/6	120/1/60			40	C/W MOTORIZED DAMPER, WALL HOUSING WITH GUARD, SWITCH, DAMPER GUARD & SPEED CONTROLLER.
EF-14	CARNES	LYDK10K	WALL PROPELLER	P-1 TRIDEL CCU ROOM EXHAUST	100	0.125	1193	1/6	120/1/60			35	C/W MOTORIZED DAMPER, WALL HOUSING WITH GUARD, THERMOSTAT, DAMPER GUARD & SPEED CONTROLLER.
EF-15	CARNES	LYDK12K	WALL PROPELLER	P-1 MECH/SPRNK ROOM EXHAUST	1000	0.125	1321	1/6	120/1/60			42	C/W MOTORIZED DAMPER, WALL HOUSING WITH GUARD, THERMOSTAT, DAMPER GUARD & SPEED CONTROLLER.
EF-16	CARNES	LYDK11H	WALL PROPELLER	P-1 BIKE STORAGE EXHAUST	250	0.125	815	1/12	120/1/60			40	C/W MOTORIZED DAMPER, WALL HOUSING WITH GUARD, SWITCH, DAMPER GUARD & SPEED CONTROLLER.
EF-17	CARNES	LRBK54	WALL PROPELLER	P-2 PARKING EXHAUST	23500	0.25	519	3	575/3/60			390	C/W MOTORIZED DAMPER, WALL HOUSING WITH GUARD, DAMPER GUARD, VFD (STEP CONTROL TYPE /W BY-PASS), AND WEATHERPROOF MOTOR, 600V/115V STEP DOWN TRANSFORMER FOR MOTORIZED DAMPER. THE FAN SHALL BE ACTIVATED AND RUN AT 50% SPEED UPON RECEIPT OF CO SIGNAL FROM CO SENSOR / SYSTEM. IF THE CO SIGNAL STILL PRESENCE AFTER CONTINUOUS RUNNING FOR 10 MINUTES, THE FAN SHALL BE SWITCHED TO FULL SPEED AND RUN UNTIL THE CO SIGNAL IS OUT.
EF-18	CARNES	LRBK60	WALL PROPELLER	P-1 PARKING EXHAUST	38700	0.25	592	5	575/3/60			480	C/W MOTORIZED DAMPER, WALL HOUSING WITH GUARD, DAMPER GUARD, VFD (STEP CONTROL TYPE /W BY-PASS), AND WEAHTERPROOF MOTOR, 600V/115V STEP DOWN TRANSFORMER FOR MOTORIZED DAMPER. THE FAN SHALL BE ACTIVATED AND RUN AT 50% SPEED UPON RECEIPT OF CO SIGNAL FROM CO SENSOR / SYSTEM. IF THE CO SIGNAL STILL PRESENCE AFTER CONTINUOUS RUNNING FOR 10 MINUTES, THE FAN SHALL BE SWITCHED TO FULL SPEED AND RUN UNTIL THE CO SIGNAL IS OUT.
EF-19	CARNES	VBK15M	IN-LINE	G/F BIKE STORAGE ROOM EXHAUST	1600	0.375	963	1/3	120/1/60			102	C/W BDD, ISOLATION KIT, AND SWITCH.
EF-20	CARNES	VBK18R	IN-LINE	G/F GARBAGE ROOM EXHAUST	3,000	0.375	955	3/4	575/3/60			158	C/W B.D.D., ISOLATION KIT, SWITCH, SPEED CONTROLLER AND THERMOSTAT CONTROL TO OVERRIDE SWITCH WHEN ROOM TEMP DROP BELOW A SET - TEMP.
EF-21	CARNES	VBK15M	IN-LINE	G/F LOADING EXHAUST	1,500	0.375	930	1/3	120/1/60			102	C/W B.D.D., ISOLATION KIT, NO SENSOR & H.O.A. STARTER.
EF-22	CARNES	VEDK12M2	CENTRIFUGAL ROOF MOUNTED	14/F BOILER ROOM EXHAUST	1,200	0.375	1227	1/3	120/1/60			35	C/W MOTORIZED DAMPER, THERMOSTAT, ROOF CURB & SPEED CONTROLLER
EF-23	CARNES	LYDK10K	WALL PROPELLER	P-1 BIKE STORAGE EXHAUST	100	0.125	1118	1/6	120/1/60			40	C/W MOTORIZED DAMPER, WALL HOUSING WITH GUARD, SWITCH, DAMPER GUARD & SPEED CONTROLLER.
EF-24	CARNES	VIDK12J3	IN LINE	G/F RESIDENTIAL GARBAGE ROOM	500	0.3"	926	1/8	120/1/60			80	C/W B.D.D., ISOLATION KIT, SWITCH AND H.O.A. STARTER.
EF-25	CARNES	VIDK08J2	IN LINE	G/F RESIDENTIAL MOVING ROOM	350	0.3"	1297	1/8	120/1/60			65	C/W B.D.D., ISOLATION KIT, SWITCH AND H.O.A. STARTER.
EF-26	CARNES	LYDK10K	WALL PROPELLER	14/F TRIDEL CCU ROOM EXHAUST	100	0.125	1193	1/6	120/1/60			35	C/W MOTORIZED DAMPER, WALL HOUSING WITH GUARD, THERMOSTAT, DAMPER GUARD & SPEED CONTROLLER.
EF-27	CARNES	LYDK09H	WALL PROPELLER	14/F CONDO CCU / SECURITY ROOM EXHAUST	100	0.125	1031	1/12	120/1/60			35	C/W MOTORIZED DAMPER, WALL HOUSING WITH GUARD, THERMOSTAT, DAMPER GUARD & SPEED CONTROLLER.
EF-28	CARNES	LYDK12K2	WALL PROPELLER	ROOF ELEVATOR MACHINE ROOM EXHAUST	650	0.125	1124	1/6	120/1/60				C/W MOTORIZED DAMPER, WALL HOUSING WITH GUARD, THERMOSTAT, DAMPER GUARD & SPEED CONTROLLER.
EF-29	CARNES	LYDK10	IN LINE	2/F RESI. LOCKER ROOM EXHAUST	200	0.375	1100	1/6	120/1/60			40	C/W BDD, ISOLATION KIT, AND SWITCH.
EF-3031	CARNES	VCDD040C10	IN LINE	G/F AMENITY WASHROOM EXHAUST	200	0.3	735	-	120/1/60			40	C/W B.D.D., EXTRA LARGE HOUSING & SLIDING DAMPER, SPEED CONTROLLER & VIBRATION ISOLATORS.
EF-32-35	ZONEX	GM130	IN LINE	G/F AMENITY WASHROOM / KITCHEN EXHAUST	100	0.25	700	63W	120/1/60			40	C/W B.D.D., EXTRA LARGE HOUSING & SLIDING DAMPER, SOUND DATA NOT MORE THAN 1 SONE & ENERGY STAR COMPLIANT.
EF-36	CARNES	VCDD040C10	IN LINE	G/F AMENITY KITCHEN EXHAUST	150	0.3	735	-	120/1/60			40	C/W B.D.D., EXTRA LARGE HOUSING & SLIDING DAMPER, SPEED CONTROLLER & VIBRATION ISOLATORS.
EF-37	CARNES	VCDD040C10	IN LINE	G/F AMENITY PARTY ROOM EXHAUST	300	0.3	735	-	120/1/60			40	C/W B.D.D., EXTRA LARGE HOUSING & SLIDING DAMPER, SPEED CONTROLLER & VIBRATION ISOLATORS.
EF-38	CARNES	LYDK09H	WALL PROPELLER	9/F MECHANICAL ROOM TERRACE EXHAUST	100	0.125	1031	1/12	120/1/60			35	C/W MOTORIZED DAMPER, WALL HOUSING WITH GUARD, THERMOSTAT, DAMPER GUARD & SPEED CONTROLLER.
SF-1,2	WOODS		IN-LINE	STAIR PRESSURIZATION	2000	1	3500	1	575/3/60			90	C/W B.D.D., ISOLATION KIT & H.O.A. STARTER /W VOLTAGE SENSING TIME DELAY RELAY SETTING (0-15s)

GRILLE AND DIFFUSER SCHEDULE

(ALL GRILLES AND DIFFUSERS HAVE STANDARD WHITE FINISH UNLESS SPECIFIED ELSEWHERE)

SYMBOL	MAKE	MODEL	DESCRIPTION	SIZE	REMARKS
SG-A	EH PRICE	540	SINGLE DEFLECTION SUPPLY AIR GRILLE	300x100	C/W MULTI-DAMPER. COLOUR TO BE COORDINATED WITH ARCHITECT.
SG-B	EH PRICE	540	SINGLE DEFLECTION SUPPLY AIR GRILLE	300x150	C/W MULTI-DAMPER. COLOUR TO BE COORDINATED WITH ARCHITECT.
SG-C	EH PRICE	540	SINGLE DEFLECTION SUPPLY AIR GRILLE	400x150	C/W MULTI-DAMPER. COLOUR TO BE COORDINATED WITH ARCHITECT.
SG-D	EH PRICE	540	SINGLE DEFLECTION SUPPLY AIR GRILLE	400x150	C/W MULTI-DAMPER. COLOUR TO BE COORDINATED WITH ARCHITECT.
SG-1	EH PRICE	CVD	TWO WAY CURVED VANE DIFFUSER	SEE DWG.	C/W O.B.D, COLOUR TO BE COORDINATED WITH INTERIOR DESIGNER.
SG-2	EH PRICE	510D	SINGLE DEFLECTION SUPPLY AIR GRILLE	SEE DWG.	C/W O.B.D, COLOUR TO BE COORDINATED WITH INTERIOR DESIGNER.
SG-3	EH PRICE	610DAL	SINGLE DEFLECTION ALUMINUM SUPPLY AIR GRILLE	SEE DWG.	C/W ALUMINUM O.B.D, COLOUR TO BE COORDINATED WITH INTERIOR DESIGNER.
SD-1	EH PRICE	SCD	4 WAY SUPPLY AIR DIFFUSER	600x600	C/W O.B.D, COLOUR TO BE COORDINATED WITH INTERIOR DESIGNER.
SD-2	EH PRICE	SCD	4 WAY SUPPLY AIR DIFFUSER	300x300	C/W O.B.D, COLOUR TO BE COORDINATED WITH INTERIOR DESIGNER.
LD-1	EH PRICE	SDB100	4 SLOT LINEAR DIFFUSER	1,200 LENGTH	C/W O.B.D & PLENUM, COLOUR TO BE COORDINATED WITH INTERIOR DESIGNER.
LD-2	EH PRICE	SDB100	3 SLOT LINEAR DIFFUSER	1,200 LENGTH	C/W O.B.D & PLENUM, COLOUR TO BE COORDINATED WITH INTERIOR DESIGNER.
LD-3	EH PRICE	SDB100	2 SLOT LINEAR DIFFUSER	1,200 LENGTH	C/W O.B.D & PLENUM, COLOUR TO BE COORDINATED WITH INTERIOR DESIGNER.
EG-1	EH PRICE	630DAL	SINGLE DEFLECTION ALUMINUM EXHAUST AIR GRILLE	SEE DWG.	C/W ALUMINUM O.B.D, COLOUR TO BE COORDINATED WITH INTERIOR DESIGNER.
EG-2	EH PRICE	530D	SINGLE DEFLECTION EXHAUST AIR GRILLE	SEE DWG.	C/W O.B.D, COLOUR TO BE COORDINATED WITH ARCHITECT
EG-3	EH PRICE	80DAL	EGG CRATE EXHAUST AIR GRILLE	SEE DWG.	C/W ALUMINUM O.B.D, COLOUR TO BE COORDINATED WITH INTERIOR DESIGNER.
RG-1	EH PRICE	80	EGG CRATE RETURN AIR GRILLE	600x600	COLOUR TO BE COORDINATED WITH INTERIOR DESIGNER.
RG-2	EH PRICE	80	EGG CRATE RETURN AIR GRILLE	300x300	COLOUR TO BE COORDINATED WITH INTERIOR DESIGNER.
RG-3	EH PRICE	80	EGG CRATE RETURN AIR GRILLE	600x300	COLOUR TO BE COORDINATED WITH INTERIOR DESIGNER.
LRD-1	EH PRICE	SDR100	2 SLOT LINEAR RETURN AIR DIFFUSER	1,200 LENGTH	C/W RETURN AIR PLENUM AND PAINTED BLACK INSIDE, COLOUR TO BE COORDINATED WITH INTERIOR DESIGNER.
LRD-2	EH PRICE	SDR100	3 SLOT LINEAR RETURN AIR DIFFUSER	1,200 LENGTH	C/W RETURN AIR PLENUM AND PAINTED BLACK INSIDE, COLOUR TO BE COORDINATED WITH INTERIOR DESIGNER.
PLENUM	EH PRICE	UPL	UNIVERSAL SUPPLY AIR PLENUM	1,200 LENGTH	C/W O.B.D.

DATE	NO.	DESCRIPTION	BY
12/11/14	4	ISSUED FOR POST-TENDER ADDENDUM #M-1	E.P.
09/23/14	3	ISSUED FOR TENDER	E.P.
07/10/14	2	RE-ISSUED FOR PERMIT	E.P.
05/30/14	1	ISSUED FOR PERMIT	E.P.

MARK VOID ALL PRINTS DATED PREVIOUS TO FINAL DATE ABOVE

REVISIONS

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT DISCREPANCIES TO THE ENGINEERS BEFORE PROCEEDING WITH THE WORK. THIS DRAWING IS THE PROPERTY OF THE ENGINEERS AND MUST BE RETURNED UPON COMPLETION OF THE WORK.

DRAWINGS ARE NOT TO BE SCALED

NOVA TREND ENGINEERING GROUP LTD

175 West Beaver Creek Road, Unit 31
Richmond Hill, Ontario L4B 3M1
Tel: 905 882-5445
Fax: 905 882-5447

DRAWING TITLE: SCHEDULES

PROJECT TITLE: SQ ALEXANDRA PARK BLOCK 11
38 CAMERON STREET
TORONTO ONTARIO

DRAWN BY:	CHECKED BY:	SCALE:
G.S.	E.P.	N.T.S.
DATE: FEB, 13	PROJECT NUMBER: 1313	DRAWING NUMBER: M-43 OF 43