AUTOMATIC GREASE REMOVAL DEVICE SCHEDULE

MARK	TYPE	RATED FLOW RATE (GPM)	GREASE RETENTION CAPACITY (LBS.)	GREASE REMOVAL RATE (LBS./HR)	WATER VOLUME CAPACITY (GAL.)	INLET CONNECTION (INCHES)	OUTLET CONNECTION (INCHES)	DIMENSIONS: LxWxH (INCHES)	ELECTRICAL			WEIGHT (LBS)	MANUFACTURER	MODEL	REMARKS
									VOLT	PH	LOAD				

DOMESTIC WATER HEATER SCHEDULE - ELECTRIC

MARK	TYPE	RECOVERY RATE		KW PER ELEMENT	NO. OF ELEMENTS	SIMULTANEOUS OR NON-SIMULTANEOUS	STORAGE (GALLONS)	MAX WORKING PRESS (PSIG)	WATER CONNECTIONS SIZE (IN)	ELECTRICAL		WEIGHT (LBS)	MANUFACTURER	MODEL	REMARKS
		GPH	ΔT °F							VOLT	PH				

DOMESTIC WATER HEATER SCHEDULE - GAS FIRED

MARK	TYPE	RECOVERY RATE		BURNER			MIN INPUT GAS PRESSURE (WC)	EFFICIENCY %	GAS CONNECTION SIZE (INCHES)	FLUE SIZE (INCHES)	COMBUSTION AIR SIZE (INCHES)	STORAGE (GALLONS)	MAX WORKING PRESS (PSIG)	WATER CONNECTIONS SIZE (INCHES)	ELECTRICAL		WEIGHT (LBS)	MANUFACTURER	MODEL	REMARKS
		GPH	ΔT °F	TYPE	MOTOR HP	INPUT (MBH)									VOLT	PH				

DOMESTIC WATER HEATER SCHEDULE - STEAM FIRED

MARK	TYPE	VERTICAL OR HORIZONTAL HX	SINGLE OR DOUBLE WALL HX	RECOVERY RATE		STEAM PRESSURE TO CONTROL VALVE (PSIG)	NO. OF CONTROL VALVES	PNEUMATIC OR ELECTRIC CONTROL VALVE	INPUT (LBS/HR)	STEAM CONNECTION SIZE (INCHES)	CONDENSATE CONNECTION SIZE (INCHES)	STORAGE (GALLONS)	MAX WORKING PRESS (PSIG)	WATER CONNECTIONS SIZE (INCHES)	ELECTRICAL		WEIGHT (LBS)	MANUFACTURER	MODEL	REMARKS
				GPH	ΔT °F										VOLT	PH				

GREASE INTERCEPTOR SCHEDULE

MARK	TYPE	RATED FLOW RATE (GPM)	GREASE RETENTION CAPACITY (LBS.)	UNIT GROSS VOLUME (GALLONS)	INLET CONNECTION (INCHES)	OUTLET CONNECTION (INCHES)	VENT CONNECTION SIZE (INCHES)	UNIT DIMENSIONS LxWxH	CONSTRUCTION MATERIAL	WEIGHT (LBS)	MANUFACTURER	MODEL	REMARKS

SEWAGE EJECTOR / SUMP PUMP SCHEDULE

MARK	SERVICE	TYPE	GPM	TH (FT)	OPERATING CONTROL MEANS	PUMP DISCHARGE SIZE (INCHES)	VENT SIZE (INCHES)	MOTOR HP	RPM	ELECTRICAL		MANUFACTURER	MODEL	BASIN				REMARKS
										VOLT	PH			TYPE	SHAPE	SIZE (INCHES)	DEPTH (FEET)	

PLUMBING FIXTURE CONNECTION SCHEDULE

FIXTURE	WASTE	VENT	CW	HW	REMARKS

PLUMBING FIXTURE SCHEDULE 'BASIN FIXTURES'

FIXTURE TAG	TYPE	FIXTURE OUTSIDE DIMENSIONS (INCHES)	FIXTURE INSIDE DIMENSIONS (INCHES)	BASIN DEPTH (INCHES)	ADA COMPLIANT (YES/NO)	MANUFACTURER	MODEL	FAUCET OPERATION	FAUCET SPREAD (INCHES)	SPOUT TYPE	SPOUT LENGTH	HANDLE TYPE	OUTLET T YPE	GPM	DRAIN TYPE	FAUCET MANUFACTURER	FAUCET MODEL	REMARKS

PLUMBING FIXTURE SCHEDULE 'BATHING FIXTURES'

FIXTUR E TAG	TYPE	ADA COMPLIANT (YES/NO)	OUTSIDE DIMENSIONS (INCHES)	INSIDE DIMENSIONS (INCHES)	THRESHOLD HEIGHT (INCHES)	DRAIN TYPE	ENCLOSURE MANUFACTURER	MODEL	SHOWER/BATH VALVE TYPE	NUMBER OF PORTS	SHOWER HEAD TYPE	GPM	SHOWER VALVE MANUFACTURER	SHOWER VALVE MODEL	REMARKS

PLUMBING FIXTURE SCHEDULE 'DRINKING FIXTURES'

FIXTURE TAG	TYPE	ADA COMPLIANT (YES/NO)	SINGLE/DUAL USER	OPERATION	GPH OF 50 °F WATER @ 90 °F AMB. AIR	MANUFACTURER	MODEL	REMARKS

PLUMBING FIXTURE SCHEDULE 'EMERGENCY...

FIXTURE TAG	TYPE	MANUFACTURER	MODEL	REMARKS

PLUMBING FIXTURE SCHEDULE 'FLUSHING FIXTURES'

FIXTURE TAG	TYPE	ADA COMPLIANT (YES/NO)	GALLONS PER FLUSH	FIXTURE MANUFACTURER	FIXTURE MODEL	FLUSH METHOD	FLUSH VALVE MANUFACTURER	FLUSH VALVE MODEL	REMARKS

FIRE SUPPRESSION SYMBOLS AND ABBREVIATIONS

SYMBOL	DESCRIPTION
	REMOVE TO POINT FOR RECONNECTION
	REMOVE TO POINT AND CAP
	CHECK VALVE
	BACKFLOW PREVENTER
	SHUT OFF VALVE
FS	FLOW SWITCH
TS	TAMPER SWITCH
	UNION
	PIPE BRANCH TAKE-OFF FROM BOTTOM
	PIPE BRANCH TAKE-OFF FROM TOP
	PIPE DROP
	PIPE RISE
	CONCEALED/SEMI-RECESSED SPRINKLER HEAD
	PIPE BRANCH TAKE-OFF FROM TOP
	UPRIGHT SPRINKLER HEAD
F	FIRE PROTECTION PIPING
SP	STANDPIPE PIPING
SPR	SPRINKLER PIPING

PLUMBING SYMBOLS AND ABBREVIATIONS

SYMBOL	DESCRIPTION
	BALANCING VALVE
	BACKFLOW PREVENTER
	CHECK VALVE
	PRESSURE REDUCING VALVE
	SHUT OFF VALVE
	STRAINER WITH BLOWDOWN
	UNION
	RECIRCULATING HOT WATER CIRCUIT VALVING
	REMOVE TO POINT AND CAP
	REMOVE TO POINT FOR RECONNECTION
	SHOWER HEAD
CO	CLEANOUT IN FLOOR OR AT GRADE
CO	CLEANOUT IN SUSPENDED PIPE
	FLOOR DRAIN
	PIPE BRANCH TAKE-OFF FROM BOTTOM
	PIPE BRANCH TAKE-OFF FROM TOP
	PIPE DROP
	PIPE RISE
	ROOF DRAIN/SANITARY VENT
ST	ROOF DRAIN ABOVE
V	VENT THRU ROOF
	HOSE BIB
	MEDICAL GAS OUTLET
CA	COMPRESSED AIR PIPING
AV	ACID VENT PIPING
AW	ACID WASTE PIPING
CO2	CARBON DIOXIDE PIPING
CW	COLD WATER PIPING
DE	DEIONIZED WATER PIPING
DI	DISTILLED WATER PIPING
G	GAS PIPING
HW	HOT WATER PIPING (____ °F)
MA	MEDICAL AIR PIPING
MAI	MEDICAL AIR INTAKE PIPING
MV	MEDICAL VACUUM PIPING
MVD	MEDICAL VACUUM DISCHARGE PIPING
N	NITROGEN PIPING
NO	NITROUS OXIDE PIPING
O	OXYGEN PIPING
OST	OVERFLOW STORM PIPING
PA	PROCESS AIR PIPING
PD	PUMP DISCHARGE PIPING
PW	PURIFIED WATER PIPING
RHW	RECIRCULATING HOT WATER PIPING
SAN	SANITARY SEWER (ABOVE GROUND)
SAN	SANITARY SEWER (UNDERGROUND/UNDERFLOOR)
ST	STORM SEWER (ABOVE GROUND)
ST	STORM SEWER (UNDERGROUND/UNDERFLOOR)
TW	TEMPERED WATER PIPING
V	VENT PIPING
WAGD	WASTE ANESTHETIC GAS DISPOSAL
140°HW	140°F HOT WATER PIPING
140°RHW	140°F RECIRCULATING HOT WATER PIPING

REV. NO.	DESCRIPTION	DATE

PROJECT NAME
kBIM TEMPLATE

SHEET TITLE
PLUMBING AND FIRE SUPPRESSION SYMBOLS AND PLUMBING SCHEDULES

DRAWN BY: Author
SCALE: 1/8" = 1'-0"
APPROVED BY: Approver
PROJECT NO: Project Number
DATE: Issue Date
P100
SHEET NUMBER

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HVAC SYMBOLS AND ABBREVIATIONS

SYMBOL	DESCRIPTION
	TURNING VANES
	VOLUME DAMPER
FD	FIRE DAMPER
FSD	FIRE/SMOKE DAMPER
	SMOKE DETECTOR (BY EC)
	MOTOR OPERATED DAMPER
T	DUCTWORK TEMPERATURE SENSOR
H	DUCTWORK HUMIDITY SENSOR
SP	DUCTWORK STATIC PRESSURE SENSOR
	SUPPLY DUCT
	RETURN OR EXHAUST DUCT
H	HUMIDISTAT/HUMIDITY SENSOR
T	THERMOSTAT/TEMPERATURE SENSOR
UCD	UNDERCUT DOOR
	AIRFLOW DIRECTION
DP	PIPING DIFFERENTIAL PRESSURE SENSOR
	BALANCING VALVE
	BACKFLOW PREVENTER
	CHECK VALVE
	CONTROL VALVE (2-WAY)
	CONTROL VALVE (3-WAY)
	PRESSURE REDUCING VALVE
	REMOVE TO POINT AND CAP
	REMOVE TO POINT FOR RECONNECTION
	SHUT OFF VALVE
	STEAM TRAP
	Y-STRAINER WITH BLOW DOWN
	UNION
	PIPE BRANCH TAKE-OFF FROM BOTTOM
	PIPE BRANCH TAKE-OFF FROM TOP
	PIPE DROP
	PIPE RISE
BBD	BOTTOM BLOWDOWN PIPING
BD	BLOWDOWN PIPING
CD	AC CONDENSATE DRAIN PIPING
CF	CHEMICAL FEED PIPING
CGR	CHILLED GLYCOL RETURN PIPING
CGS	CHILLED GLYCOL SUPPLY PIPING
CR	CONDENSER WATER RETURN PIPING
CS	CONDENSER WATER SUPPLY PIPING
CWR	CHILLED WATER RETURN PIPING
CWS	CHILLED WATER SUPPLY PIPING
D	DRAIN PIPING

HVAC SYMBOLS AND ABBREVIATIONS

SYMBOL	DESCRIPTION
FOR	FUEL OIL RETURN PIPING
FOS	FUEL OIL SUPPLY PIPING
FOV	FUEL OIL VENT PIPING
FW	FEEDWATER PIPING
FWR	FEEDWATER RECIRC PIPING
GR	CONDENSER GLYCOL RETURN PIPING
GS	CONDENSER GLYCOL SUPPLY PIPING
HCWR	HEATING & CHILLED WATER RETURN PIPING
HCWS	HEATING & CHILLED WATER SUPPLY PIPING
HPR	HIGH PRESSURE CONDENSATE RETURN PIPING
HPS	HIGH PRESSURE STEAM PIPING
HWR	HEATING WATER RETURN PIPING
HWS	HEATING WATER SUPPLY PIPING
LPR	LOW PRESSURE CONDENSATE RETURN PIPING
LPS	LOW PRESSURE STEAM PIPING
MPR	MEDIUM PRESSURE CONDENSATE RETURN PIPING
MPS	MEDIUM PRESSURE STEAM PIPING
PCD	PUMPED AC CONDENSATE DRAIN PIPING
PCWR	PRIMARY CHILLED WATER RETURN PIPING
PCWS	PRIMARY CHILLED WATER SUPPLY PIPING
PHWR	PRIMARY HEATING WATER RETURN PIPING
PHWS	PRIMARY HEATING WATER SUPPLY PIPING
PSC	PUMPED STEAM CONDENSATE
RFR	RADIANT FLOOR RETURN PIPING
RFS	RADIANT FLOOR SUPPLY PIPING
RG	REFRIGERANT GAS PIPING
RHGB	REFRIGERANT HOT GAS BYPASS PIPING
RHWR	RADIATION HEATING WATER RETURN PIPING
RHWS	RADIATION HEATING WATER SUPPLY PIPING
RL	REFRIGERANT LIQUID PIPING
RS	REFRIGERANT SUCTION PIPING
RV	REFRIGERANT VENT PIPING
SBD	SURFACE BLOWDOWN PIPING
SE	SAFETY ESCAPE VALVE PIPING (STEAM)
SCWR	SECONDARY CHILLED WATER RETURN PIPING
SCWS	SECONDARY CHILLED WATER SUPPLY PIPING
SHWR	SECONDARY HEATING WATER RETURN PIPING
SHWS	SECONDARY HEATING WATER SUPPLY PIPING
SMR	SNOW MELT RETURN PIPING
SMS	SNOW MELT SUPPLY PIPING
SW	SOFTENED WATER PIPING
SV	STEAM VENT PIPING

EQUIPMENT TAGGING LEGEND

EQUIPMENT DESIGNATION	TAGGING DESCRIPTION
S,R,E,T	EQUIPMENT DESIGNATION TYPE DUCT CONNECTION SIZE. SEE GRILLE AND DIFFUSER SCHEDULE FOR ADDITIONAL INFORMATION. XX-XX XXX(X) QUANTITY CFM
ADU, CB, CONV, CUH, ECH, EH, EUH, FCU, FFU, GUH, PTAC, UH, UV, WHP	EQUIPMENT DESIGNATION XXX-X-X PLAN DESIGNATION TYPE
FTR, RP	EQUIPMENT DESIGNATION XXX-X-X'X" LENGTH TYPE
ACC, ACH, ACU, AHU, AS, B, BDE, BDS, BT, CC, CH, CRAC, CT, CTP, CU, CUA, CUW, DA, DC, DF, DT, EACC, ECUA, ECUC, ECUW, EF, EHC, ERC, ERU, ERV, ET, F, FOP, GV, H, HC, HE, HVU, HX, MAU, P, PRV, RTU, SAT, SEP, ST	EQUIPMENT DESIGNATION XXX-X PLAN DESIGNATION
EAV, FPVAV, HAV, RHC, SAV, VAV	EQUIPMENT DESIGNATION XXX-X-X PLAN DESIGNATION FLOOR
VFD	SERVICING EQUIPMENT MARK VFD-XX-XXXX SPECIFIC COMPONENT DESIGNATION

GRILLE AND DIFFUSER SCHEDULE

MARK	LOCATION	MANUFACTURER	MODEL	FRAME/BORDER	MODULE SIZE	WIDTH (IN)	SLOTS NO.	SLOTS WIDTH (IN)	PATTERN	DAMPER MODEL	FINISH	REMARKS
E1					24/24							
E2					REFER TO PLANS							
R1					12/12							
R2					REFER TO PLANS							
R3					CONTINUOUS	3	1	1"				
S1					24/24							
S2					REFER TO PLANS							
S3					CONTINUOUS	3	1	1"				

VAV TERMINAL UNIT SCHEDULE

MARK		INLET SIZE (IN)	CFM MAX	CFM MIN	HEATING COIL CFM	HEATING COIL MBH	HEATING COIL EAT (°F)	HEATING COIL LAT (°F)	HEATING COIL GPM	HEATING COIL KW	HEATING COIL STAGES	HEATING COIL VOLT	HEATING COIL PHASE	MAX DISCHARGE NC	REMARKS
VAV	1	12	0	0	0		-459.7	-459.7	0	0.0		0			
VAV	2	10	0	0	0		-459.7	-459.7	0	0.0		0			

R1-10/10 150 | E1-22/22 150 | S1-10" 150

R2-12/12 0 | E2-12/12 0 | S2-12/12 0

R3-6" 0 | S3-6" 0

VAV-1 VAV-2

FIRST FLOOR HVAC PLAN

1/8" = 1'-0"

0 2' 4' 6' 8' 12' 16'

REV. NO.	DESCRIPTION	DATE

PROJECT NAME
kBIM TEMPLATE

SHEET TITLE
HVAC SYMBOLS AND SCHEDULES

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M100
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AIR CONDITIONING UNIT SCHEDULE

MARK	CONFIGURATION	FAN DATA							COOLING COIL									COMPRESSOR DATA			HEATING COIL									FILTER					ELECTRICAL				OPER. WEIGHT (LB)	MANUFACTURER	MODEL	REMARKS
		TOTAL CFM	MIN OA CFM	TSP ("WC)	ESP ("WC)	RPM	BHP	MOTOR HP	TOTAL MBH	SENSIBLE MBH	EAT (DB °F)	EAT (WB °F)	LAT (DB °F)	LAT (WB °F)	REFRIGERANT	EER	ACC MARK	NO	HP (EA)	CAPACITY STEPS	MBH	EAT (°F)	LAT (°F)	GPM	EWT (°F)	LWT (°F)	WPD (FT)	KW	STAGES	TYPE	MERV	DEPTH	CLEAN APD ("WC)	DIRTY APD ("WC)	VOLT	PH	MCA	MOP				

AIR COOLED CHILLER SCHEDULE

MARK	REFRIGERANT		NOMINAL TONS	EER		COMPRESSOR DATA				EVAPORATOR				CONDENSER DATA			ACC MARK	EACC MARK	PUMP DATA		ELECTRICAL					OPER. WEIGHT (LB)	MANUFACTURER	MODEL	REMARKS
	TYPE	LBS		FULL LOAD	IPLV	TYPE	NO	TONS (EA)	CAPACITY STEPS	EWT (°F)	LWT (°F)	GPM	WPD (FT)	AAT (°F)	NO. FANS	HP (EA)			HP	TH (FT)	VOLT	PH	KW	MCA	MOP				

AIR COOLED CONDENSER SCHEDULE

MARK	SERVICE	LOCATION	MBH	REFRIGERANT	AAT (°F)	FAN DATA					VOLT	PH	OPER. WEIGHT (LB)	MANUFACTURER	MODEL	REMARKS
						TYPE	CFM	ESP ("WC)	NO	HP (EA)						

AIR DOOR UNIT SCHEDULE

MARK	TYPE	LOCATION	MBH	ATR (°F)	GPM	EWT (°F)	LWT (°F)	WPD (FT)	PPH	PSI	KW	VOLT	PH	FAN DATA					NOZZLE			MANUFACTURER	MODEL	REMARKS
														TOTAL CFM	NO	HP (EA)	VOLT	PH	LENGTH (IN)	OV (FPM)	AFF (FT)			

AIR HANDLING UNIT SCHEDULE

MARK	LOCATION	TYPE	CONFIGURATION	ARRANGEMENT	SUPPLY AIR																RETURN AIR															PREHEAT COIL																	
					TOTAL CFM	MIN OA CFM	NO. FANS	CFM (EA)	TSP ("WC)	ESP ("WC)	TYPE	SIZE (IN)	RPM	CLASS	DRIVE	BHP	MOTOR HP	VOLT	PH	VFD MARK	TOTAL CFM	NO. FANS	CFM (EA)	TSP ("WC)	ESP ("WC)	TYPE	SIZE (IN)	RPM	CLASS	DRIVE	BHP	MOTOR HP	VOLT	PH	VFD MARK	CFM	MBH	EAT (°F)	LAT (°F)	GPM	EWT (°F)	LWT (°F)	WPD (FT)	PPH	PSI	KW	STAGES	VOLT	PH	FACE VEL (FPM)	APD ("WC)	ROWS	FPI

AIR HANDLING UNIT SCHEDULE (CONT)

MARK	COOLING COIL																			REHEAT COIL																		PREFILTER					FINAL FILTER					HUMIDIFIER MARK	ENERGY RECOVERY MARK	OPER. WEIGHT (LB)	MANUFACTURER	MODEL	REMARKS
	TOTAL MBH	SENSIBLE MBH	EAT (DB °F)	EAT (WB °F)	LAT (DB °F)	LAT (WB °F)	GPM	EWT (°F)	LWT (°F)	WPD (FT)	REFRIGERANT	SUCT. TEMP. (°F)	CU MARK	FACE VEL (FPM)	APD ("WC)	ROWS	FPI	DISCHARGE SP ("WC)	AC COND DRAIN SIZE (IN)	CFM	MBH	EAT (°F)	LAT (°F)	GPM	EWT (°F)	LWT (°F)	WPD	PPH	PSI	KW	STAGES	VOLT	PH	FACE VEL (FPM)	APD ("WC)	ROWS	FPI	TYPE	MERV	DEPTH (IN)	CLEAN APD ("WC)	DIRTY APD ("WC)	TYPE	MERVE	DEPTH (IN)	CLEAN APD ("WC)	DIRTY APD ("WC)						

AIR SEPARATOR SCHEDULE

MARK	SERVICE	GPM	WPD (FT)	SIZE (IN)	MANUFACTURER	MODEL	REMARKS

AIR VALVE SCHEDULE

MARK	SIZE (IN, IN x IN)	CFM		VALVE BODIES		RHC MARK	EHC MARK	MANUFACTURER	MODEL	REMARKS
		MAX	MIN	NO.	SIZE (IN)					

BLOWDOWN ECONOMIZER SCHEDULE

MARK	DIA (IN)	OPERATING PRESS (PSI)	MAX WORKING PRESS (PSI)	BLOWDOWN (GPM)	MAKE UP (GPM)	CONNECTIONS				MANUFACTURER	MODEL	REMARKS
						INLET (IN)	VENT(IN)	DRAIN (IN)	MAKE UP IN/OUT (IN)			

BLOWDOWN SEPARATOR SCHEDULE

MARK	DIA (IN) x HEIGHT (IN)	OPERATING PRESS (PSI)	MAX WORKING PRESS (PSI)	CONNECTIONS			AFTERCOOLER		MANUFACTURER	MODEL	REMARKS
				INLET (IN)	VENT(IN)	DRAIN (IN)	DIA (IN) x HEIGHT (IN)	CW INLET (IN)			

BOILER SCHEDULE

MARK	SERVICE	TYPE	EFFICIENCY %	BURNER		INPUT					OUTPUT							FLUE SIZE (IN)	COMB AIR INLET (IN)	MAX PSI	RV SETTING (PSI)	VOLT	PH	OPER. WEIGHT (LB)	MANUFACTURER	MODEL	PRIMARY BOILER PUMP								PRIMARY PUMP MARK	REMARKS
				TYPE	MOTOR HP	FUEL	CFH	MIN GAS PRESS	GPH	KW	MBH	GPM	EWT (°F)	LWT (°F)	WPD (FT)	LB/HR	PSI										NO	HP (EA)	GPM (EA)	TH (FT)	VOLT	PH	MANUFACTURER	MODEL		

BUFFER TANK SCHEDULE

MARK	SERVICE	TANK VOLUME (GAL)	CONNECTIONS		DIAMETER (IN)	HEIGHT (IN)	WEIGHT WHEN FULL (LB)	MAX WORK PRESS (PSI)	MANUFACTURER	MODEL	REMARKS
			NO	SIZE (IN)							

CABINET UNIT HEATER SCHEDULE

MARK	TYPE	CONFIGURATION	INLET	DISCHARGE	RECESSED DEPTH (IN)	FAN					HEATING COIL									BOTTOM AFF (IN)	MANUFACTURER	MODEL	REMARKS
						CFM	ESP ("WC)	MOTOR HP	VOLT	PH	MBH	EAT (°F)	LAT (°F)	GPM	EWT (°F)	LWT (°F)	WPD (FT)	PPH	PSI				

CHILLED BEAM SCHEDULE

MARK	TYPE	INLET SIZE (IN)	MODULE SIZE (IN x IN)	PRIMARY AIR				SENSIBLE COOLING							HEATING							MANUFACTURER	MODEL	REMARKS
				CFM	NOZZLE SIZE (IN)	APD ("WC)	MAX NC	MBH	GPM	EWT (°F)	LWT (°F)	WPD (FT)	CONNECTIONS (IN)	RUNOUTS (IN)	MBH	GPM	EWT (°F)	LWT (°F)	WPD (FT)	CONNECTIONS (IN)	RUNOUTS (IN)			

CHILLER SCHEDULE

MARK	TYPE	REFRIGERANT		NOMINAL TONS	KW/TON		EVAPORATOR						CONDENSER						COMPRESSOR DATA			ELECTRICAL				OPER. WEIGHT (LB)	MANUFACTURER	MODEL	REMARKS
		TYPE	LBS		FULL LOAD	IPLV	GPM	EWT (°F)	LWT (°F)	WPD (FT)	NO. PASSES	SHELL LENGTH (FT)	GPM	EWT (°F)	LWT (°F)	WPD (FT)	NO. PASSES	SHELL LENGTH (FT)	TYP	NO./TONS (EA)	CAPACITY STEPS	VOLT	PH	MCA	MOP				

COMPUTER ROOM AIR CONDITIONER SCHEDULE

MARK	TYPE	MOUNTING	ARRANGEMENT	SYSTEM SCOP	FAN DATA				COOLING COIL															COMPRESSOR DATA		CONDENSER DATA										REHEAT COIL								HUMIDIFIER		FILTER			ELECTRICAL				OPER. WEIGHT (LB)	MANUFACTURER	MODEL	REMARKS
					TOTAL CFM	ESP ("WC)	NO	HP (EA)	TOTAL MBH	SENSIBLE MBH	EAT (DB °F)	EAT (WB °F)	FACE VEL (FPM)	ROWS	GPM	EWT (°F)	LWT (°F)	WPD (FT)	REFRIG. TYPE	REFRIG. CHARGE (OZ)	ACC MARK	CUA MARK	CUW MARK	TYPE	NUMBER	CFM	ESP ("WC)	MOTOR HP	ROWS	FACE AREA (SF)	AAT (°F)	GPM	EWT (°F)	LWT (°F)	WPD (FT)	TYPE	MBH	GPM	WPD (FT)	KW	VOLT	PH	STAGES	TYPE	PPH	TYPE	MERV	DEPTH (IN)	VOLT	PH	MCA	MOP				

CONDENSATE TRANSFER PUMP SCHEDULE

MARK	TYPE	RECEIVER DATA					PUMP DATA								MANUFACTURER	MODEL	REMARKS
		TYPE	GALLONS	INLET (IN)	OVERFLOW (IN)	VENT (IN)	NO	HP (EA)	GPM (EA)	DISCHARGE PSI	DISCHARGE (IN)	RPM	VOLT	PH			

CONDENSING UNIT (AIR COOLED) SCHEDULE

MARK	SERVICE	LOCATION	MBH	REFRIGERANT	COMPRESSOR DATA		CONDENSER DATA							ELECTRICAL				OPER. WEIGHT (LB)	MANUFACTURER	MODEL	REMARKS
					TYPE	NUMBER	FAN TYPE	CFM	ESP ("WC)	MOTOR HP	ROWS	FACE AREA (SF)	AAT (°F)	VOLT	PH	MCA	MOP				

CONDENSING UNIT (WATER COOLED) SCHEDULE

MARK	SERVICE	MBH	REFRIGERANT	COMPRESSOR DATA		CONDENSER DATA				ELECTRICAL				OPER. WEIGHT (LB)	MANUFACTURER	MODEL	REMARKS
				TYPE	NUMBER	GPM	EWT (°F)	LWT (°F)	WPD (FT)	VOLT	PH	MCA	MOP				

CONDENSING UNIT SCHEDULE

MARK	SERVICE	EER	MBH	REFRIGERANT	SUCT. TEMP. (°F)	COMPRESSOR DATA			CONDENSER DATA			ELECTRICAL				OPER. WEIGHT (LB)	MANUFACTURER	MODEL	REMARKS
						NO	HP (EA)	CAPACITY STEPS (%)	NO. FANS	HP (EA)	AAT (°F)	VOLT	PH	MCA	MOP				

CONVECTOR SCHEDULE

MARK	TYPE	MBH	AWT (°F)	PSI	SIZE (LxHxD-IN)	MOUNTING			DAMPER TYPE	MANUFACTURER	MODEL	REMARKS
						ARRANGEMENT	RECESSED DEPTH (IN)	BOTTOM AFF (IN)				

COOLING COIL SCHEDULE

MARK	SERVICE	CFM	SIZE (IN x IN)	TOTAL MBH	SENSIBLE MBH	EAT (DB °F)	EAT (WB °F)	LAT (DB °F)	LAT (WB °F)	REFRIGERANT	SUCT. TEMP (°F)	CU MARK	FACE VEL (FPM)	APD ("WC)	ROWS	FPI	MANUFACTURER	MODEL	REMARKS

COOLING TOWER SCHEDULE

MARK	TYPE	NOMINAL TONS	NO. CELLS	GPM	EWT (°F)	LWT (°F)	EAT (WB °F)	NOZZLE PD (PSI)	FAN DATA					VFD MARK(S)	VOLT	PH	OPER. WEIGHT (LB)	MANUFACTURER	MODEL	REMARKS
									NO. PER CELL	TYPE	HP (EA)	CFM (EA)	ESP ("WC)							

DAY TANK SCHEDULE

MARK	TYPE	GALLONS	SUPPLY PUMPS				RETURN PUMPS				VOLT	PH	MANUFACTURER	MODEL	REMARKS
			NO	HP (EA)	GPM	DISCHARGE PSI	NO	HP (EA)	GPM	DISCHARGE PSI					

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DEAERATOR SCHEDULE

MARK	RECEIVER DATA						PUMP DATA								OPER. WEIGHT (LB)	MANUFACTURER	MODEL	REMARKS
	DIA (IN) x LENGTH (IN)	GALLONS TO OVERFLOW	STEAM (IN)	MAKE UP WATER (IN)	OVERFLOW (IN)	HIGH TEMP RETURN (IN)	NO	HP (EA)	GPM (EA)	DISCHARGE (PSI)	DISCH MANIFOLD (IN)	RPM	VOLT	PH				

DRY COOLER SCHEDULE

MARK	MBH	AAT (F)	GPM	EWT (F)	LWT (F)	WPD (FT)	NO. FANS (EA)	HP (EA)	VOLTAGE	PHASE	OPER. WEIGHT (LB)	MANUFACTURER	MODEL	REMARKS

DUCT FURNACE SCHEDULE

MARK	TYPE	FUEL TYPE	EFFICIENCY %	INPUT (MBH)	OUTPUT (MBH)	MIN. GAS PRESS. ("WC)	STAGES	TOTAL CFM	MIN OA CFM	EAT (°F)	LAT (°F)	APD ("WC)	VOLT	PH	MANUFACTURER	MODEL	REMARKS

ELECTRIC CABINET HEATER SCHEDULE

MARK	TYPE	CONFIGURATION	INLET	DISCHARGE	RECESSED DEPTH (IN)	CFM	KW	MBH	AMPS	VOLTAGE	PHASE	THERMOSTAT	BOTTOM AFF (IN)	MANUFACTURER	MODEL	REMARKS

ELECTRIC HEATER SCHEDULE

MARK	TYPE	LENGTH (IN)	KW	MBH	AMPS	VOLTAGE	PHASE	THERMOSTAT	MOUNTING				MANUFACTURER	MODEL	REMARKS
									LOCATION	ARRANGEMENT	RECESSED DEPTH (IN)	BOTTOM AFF (IN)			

ELECTRIC HEATING COIL SCHEDULE

MARK	CFM	SIZE (IN x IN)	MBH	EAT (°F)	LAT (°F)	FACE VEL (FPM)	APD ("WC)	KW	STAGES	VOLT	PH	MANUFACTURER	MODEL	REMARKS

ELECTRIC UNIT HEATER SCHEDULE

MARK	TYPE	CFM	KW	MBH	AMPS	VOLTAGE	PHASE	THERMOSTAT	MOUNTING	BOTTOM AFF (FT)	MANUFACTURER	MODEL	REMARKS

ENERGY RECOVERY COIL SCHEDULE

MARK	SERVICE	CFM	FACE VEL (FPM)	APD ("WC)	GPM	WPD (FT)	ROWS	FPI	SUMMER CONDITIONS							WINTER CONDITIONS							REMARKS
									MBH	EAT (DB °F)	EAT (WB °F)	LAT (DB °F)	LAT (WB °F)	EWT (°F)	LWT (°F)	MBH	EAT (DB °F)	EAT (WB °F)	LAT (DB °F)	LAT (WB °F)	EWT (°F)	LWT (°F)	

ENERGY RECOVERY UNIT SCHEDULE

MARK	SERVICE	RECOVERY			OUTDOOR AIR		EXHAUST AIR		SUMMER CONDITIONS								WINTER CONDITIONS								REFRIGERANT		MANUFACTURER	MODEL	REMARKS
		TYPE	METHOD	MATERIAL	CFM	APD ("WC)	CFM	APD ("WC)	OA - EAT (DB °F)	OA - EAT (WB °F)	OA - LAT (DB °F)	OA - LAT (WB °F)	EA - EAT (DB °F)	EA - EAT (WB °F)	SENSIBLE EFFECT. (%)	LATENT EFFECT. (%)	OA - EAT (DB °F)	OA - EAT (WB °F)	OA - LAT (DB °F)	OA - LAT (WB °F)	EA - EAT (DB °F)	EA - EAT (WB °F)	SENSIBLE EFFECT. (%)	LATENT EFFECT. (%)	TYPE	CHARGE (LB)			

ENERGY RECOVERY VENTILATOR SCHEDULE

MARK	SERVICE	DISCHARGE	RECOVERY			OUTDOOR AIR					EXHAUST AIR					SUMMER CONDITIONS								WINTER CONDITIONS								FILTERS					REFRIGERANT		ELECTRICAL				OPER. WEIGHT (LB)	MANUFACTURER	MODEL	REMARKS
			TYPE	METHOD	MATERIAL	CFM	TSP ("WC)	ESP ("WC)	MOTOR RPM	MOTOR HP	CFM	TSP ("WC)	ESP ("WC)	MOTOR RPM	MOTOR HP	OA - EAT (DB °F)	OA - EAT (WB °F)	OA - LAT (DB °F)	OA - LAT (WB °F)	EA - EAT (DB °F)	EA - EAT (WB °F)	SENSIBLE EFFECT. (%)	LATENT EFFECT. (%)	OA - EAT (DB °F)	OA - EAT (WB °F)	OA - LAT (DB °F)	OA - LAT (WB °F)	EA - EAT (DB °F)	EA - EAT (WB °F)	SENSIBLE EFFECT. (%)	LATENT EFFECT. (%)	TYPE	MERV	DEPTH	CLEAN APD ("WC)	DIRTY APD ("WC)	TYPE	CHARGE (LB)	VOLT	PH	MCA	MOP				

ENVIRONMENTAL CONDITIONING UNIT (AIR COOLED)

MARK	TYPE	MOUNTING	ARRANGEMENT	SYSTEM SCOP	FAN DATA				COOLING COIL										COMPRESSOR DATA		CONDENSER DATA						REHEAT COIL								HUMIDIFIER		FILTER			ELECTRICAL				OPER. WEIGHT (LB)	MANUFACTURER	MODEL	REMARKS
					TOTAL CFM	ESP ("WC)	NO	HP (EA)	TOTAL MBH	SENSIBLE MBH	EAT (DB °F)	EAT (WB °F)	FAC VEL (FPM)	ROWS	REFRIG. TYPE	REFRIG. CHARGE (OZ)	ACC MARK	CUA MARK	TYPE	NUMBER	CFM	ESP ("WC)	MOTOR HP	ROWS	FACE AREA (SF)	AAT (F)	TYPE	MBH	GPM	WPD (FT)	KW	VOLT	PH	STAGES	TYPE	PPH	TYPE	MERV	DEPTH (IN)	VOLT	PH	MCA	MOP				

ENVIRONMENTAL CONDITIONING UNIT (CHILLED WATER)

MARK	MOUNTING	ARRANGEMENT	FAN DATA				COOLING COIL										REHEAT COIL								HUMIDIFIER		FILTER			ELECTRICAL				OPER. WEIGHT (LB)	MANUFACTURER	MODEL	REMARKS
			TOTAL CFM	ESP ("WC)	NO (EA)	HP (EA)	TOTAL MBH	SENSIBLE MBH	EAT (DB °F)	EAT (WB °F)	GPM	EWT (°F)	LWT (°F)	WPD (FT)	FAC VEL (FPM)	ROWS	TYPE	MBH	GPM	WPD (FT)	KW	VOLT	PH	STAGES	TYPE	PPH	TYPE	MERV	DEPTH (IN)	VOLT	PH	MCA	MOP				

ENVIRONMENTAL CONDITIONING UNIT (WATER COOLED)

MARK	TYPE	MOUNTING	ARRANGEMENT	SYSTEM SCOP	FAN DATA				COOLING COIL									COMPRESSOR DATA		CONDENSER				REHEAT COIL								HUMIDIFIER		FILTER			ELECTRICAL				OPER. WEIGHT (LB)	MANUFACTURER	MODEL	REMARKS
					TOTAL CFM	ESP ("WC)	NO	HP (EA)	TOTAL MBH	SENSIBLE MBH	EAT (DB °F)	EAT (WB °F)	FAC VEL (FPM)	ROWS	REFRIG. TYPE	REFRIG. CHARGE (OZ)	CUW MARK	TYPE	NUMBER	GPM	EWT (°F)	LWT (°F)	WPD (FT)	TYPE	MBH	GPM	WPD (FT)	KW	VOLT	PH	STAGES	TYPE	PPH	TYPE	MERV	DEPTH (IN)	VOLT	PH	MCA	MOP				

EVAPORATIVE AIR COOLED CONDENSER SCHEDULE

MARK	SERVICE	LOCATION	MBH	REFRIGERANT	AAT (°F)	FAN DATA					PUMP DATA			ELECTRICAL				OPER. WEIGHT (LB)	MANUFACTURER	MODEL	REMARKS
						TYPE	CFM	ESP ("WC)	NO	HP (EA)	GPM	HP	TH (FT)	VOLT	PH	MCA	MOP				

EXPANSION TANK SCHEDULE

MARK	SERVICE	TYPE	MOUNTING	TANK VOLUME (GAL)	ACCEPT. VOLUME (GAL)	DIAMETER (IN)	HEIGHT (IN)	LENGTH (IN)	WEIGHT WHEN FULL (LB)	CHARGE PRESSURE (PSI)	MAX WORK PRESS (PSI)	MANUFACTURER	MODEL	REMARKS

FAN COIL UNIT SCHEDULE

MARK	TYPE	CONFIGURATION	INLET	DISCHARGE	RECESSED DEPTH (IN)	FAN DATA					COOLING COIL													HEATING COIL													BOTTOM AFF (IN)	MANUFACTURER	MODEL	REMARKS
						CFM	ESP ("WC)	MOTOR HP	VOLT	PH	TOTAL MBH	SENSIBLE MBH	EAT (DB °F)	EAT (WB °F)	LAT (DB °F)	LAT (WB °F)	GPM	EWT (°F)	LWT (°F)	WPD (FT)	REFRIGERANT	SUCT. TEMP. (°F)	CU MARK	MBH	EAT (°F)	LAT (°F)	GPM	EWT (°F)	LWT (°F)	WPD	PPH	PSI	KW	STAGES	VOLT	PH				

FAN FILTER UNIT SCHEDULE

MARK	SIZE	UNIT HEIGHT (IN)	NOMINAL CFM	DUCT COLLAR (IN)	PREFILTER	FINAL FILTER (%EFF)	ELECTRICAL				MANUFACTURER	MODEL	REMARKS
							VOLT	PH	WATTS	FLA			

FAN SCHEDULE

MARK	SERVICE	TYPE	SIZE (IN)	CFM	ENTRAINMENT CFM	EFFECT. PLUME HEIGHT (FT)	SP ("WC)	OV (FPM)	TIP SPEED (FPM)	RPM	CLASS	ROTATION	ARRANGEMENT	DRIVE	BHP	MOTOR HP	VOLT	PHASE	VFD MARK	OPER. WEIGHT (LB)	MANUFACTURER	MODEL	REMARKS

FINNED TUBE RADIATION SCHEDULE

MARK	BTU/LF	AWT (F)	PSI	ELEMENT	ENCLOSURE			MOUNTING		DAMPER TYPE	MANUFACTURER	MODEL	REMARKS
					TYPE	GAUGE	HEIGHT (IN)	ARRANGEMENT	BOTTOM AFF (IN)				

FPVAV TERMINAL UNIT SCHEDULE

MARK	TYPE	UNIT SIZE	INLET SIZE (IN)	PRIMARY CFM		FAN					HEATING COIL									MAX DISCHARGE NC	REMARKS
				MAX	MIN	CFM	ESP ("WC)	MOTOR HP	VOLT	PHASE	CFM	MBH	EAT (°F)	LAT (°F)	GPM	KW	STAGES	VOLT	PH		

FUEL OIL PUMP SCHEDULE

MARK	SERVICE	TYPE	NO. PUMPS	HP (EA)	GPM (EA)	SUCTION VACUUM ("Hg)	DISCHARGE PSI	RPM	VOLT	PH	MANUFACTURER	MODEL	REMARKS

FURNACE SCHEDULE

MARK	TYPE	FUEL	EFFICIENCY (%)	FAN DATA						HEATER DATA									COOLING COIL MARK	FILTER	MANUFACTURER	MODEL	REMARKS
				TOTAL CFM	MIN OA CFM.	ESP ("WC)	MOTOR HP	VOLT	PH	EAT (°F)	LAT (°F)	INPUT (MBH)	OUTPUT (MBH)	MIN. GAS PRESS. ("WC)	STAGES	KW	VOLT	PH					

GAS UNIT HEATER SCHEDULE

MARK	TYPE	FUEL	EFFICIENCY (%)	MIN. GAS PRESS. ("WC)	INPUT (MBH)	OUTPUT (MBH)	EAT (°F)	LAT (°F)	STAGES	FAN TYPE	CFM	MOTOR HP	VOLT	PH	BOTTOM AFF (FT)	MANUFACTURER	MODEL	REMARKS

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GRAVITY VENTILATOR SCHEDULE

MARK	SERVICE	TYPE	CFM	THROAT		APD ("WC)	OPER. WEIGHT (LB)	MANUFACTURER	MODEL	REMARKS
				SIZE (IN x IN)	AREA (SQ FT)					

HEAT EXCHANGER (PLATE & FRAME) SCHEDULE

MARK	SERVICE	MBH	NO. PASSES	PRIMARY							SECONDARY							PLATE		MIN. HTG. SURF (SQ FT)	OPER. WEIGHT (LB)	MANUFACTURER	MODEL	REMARKS
				FLUID TYPE	GPM	EWT (°F)	LWT (°F)	WPD (FT)	INLET (IN)	OUTLET (IN)	FLUID TYPE	GPM	EWT (°F)	LWT (°F)	WPD (FT)	INLET (IN)	OUTLET (IN)	SIZE (IN x IN)	QUANTITY					

HEAT EXCHANGER (SHELL & TUBE) SCHEDULE

MARK	SERVICE	TUBE TYPE	MBH	FOULING FACTOR	PRIMARY									SECONDARY							SHELL			MIN. HTG. SURF (SQ FT)	OPER. WEIGHT (LB)	MANUFACTURER	MODEL	REMARKS
					FLUID TYPE	GPM	EWT (°F)	LWT (°F)	WPD (FT)	PPH	PSI	INLET (IN)	OUTLET (IN)	FLUID TYPE	GPM	EWT (°F)	LWT (°F)	WPD (FT)	INLET (IN)	OUTLET (IN)	LENGTH (IN)	DIAMETER (IN)	NO. PASSES					

HEATING AND VENTILATING UNIT SCHEDULE

MARK	LOCATION	CONFIGURATION	FAN DATA													HEATING COIL																FILTER					OPER. WEIGHT (LB)	MANUFACTURER	MODEL	REMARKS
			TOTAL CFM	MIN OA CFM	TSP ("WC)	ESP ("WC)	TYPE	SIZE (IN)	RPM	DRIVE	BHP	MOTOR HP	VOLT	PH	VFD MARK	MBH	EAT (°F)	LAT (°F)	GPM	EWT (°F)	LWT (°F)	WPD (FT)	PPH	PSI	KW	STAGES	VOLT	PH	APD ("WC)	ROWS	FPI	TYPE	MERV	DEPTH (IN)	CLEAN APD ("WC)	DIRTY APD ("WC)				

HEATING COIL SCHEDULE

MARK	CFM	SIZE (IN x IN)	MBH	EAT (°F)	LAT (°F)	FACE VEL (FPM)	APD ("WC)	GPM	EWT (°F)	LWT (°F)	WPD (FT)	PPH	PSI	ROWS	FPI	MANUFACTURER	MODEL	REMARKS

HUMIDIFIER SCHEDULE

MARK	SERVICE	TYPE	PPH	CFM	PANEL SIZE (INxIN)	MANIFOLD LENGTH (IN)	MAX ABSORB. DIST. (IN)	PSI	ELECTRICAL					GAS					MANUFACTURER	MODEL	REMARKS
									KW	VOLT	PH	MCA	MOP	INPUT (MBH)	MIN GAS PRESS. ("WC)	VOLT	PH	FLA			

MAKE UP AIR UNIT SCHEDULE

MARK	LOCATION	CONFIGURATION	FAN DATA												HEATING SECTION																		FILTER					OPER. WEIGHT (LB)	MANUFACTURER	MODEL	REMARKS
			CFM	TSP ("WC)	ESP ("WC)	TYPE	SIZE (IN)	RPM	DRIVE	BHP	MOTOR HP	VOLT	PH	VFD MARK	TYPE	INPUT (MBH)	OUTPUT (MBH)	MIN. GAS PRESS. ("WC)	MBH	EAT (°F)	LAT (°F)	GPM	EWT (°F)	LWT (°F)	WPD	PPH	PSI	KW	STAGES	VOLT	PH	EFICIENCY (%)	TYPE	MERV	DEPTH (IN)	CLEAN APD ("WC)	DIRTY APD ("WC)				

PACKAGED TERMINAL AIR CONDITIONING UNIT SCHEDULE

MARK	CFM	COOLING					HEATING											ELECTRIC				MANUFACTURER	MODEL	REMARKS
		TOTAL MBH	SENSIBLE MBH	REFRIG. TYPE	REFRIG. CHARGE (OZ)	EER	MBH	GPM	EWT (°F)	LWT (°F)	WPD (FT)	PPH	PSI	KW	STAGES	VOLT	PH	VOLT	PH	MCA	MOP			

PUMP SCHEDULE

MARK	SERVICE	TYPE	GPM	TH (FT)	NPSH RQD (FT)	SIZE (IN x IN x IN)	DRIVE	BHP	MOTOR HP	VFD MARK	RPM	ELECTRICAL		OPER. WEIGHT (LB)	MANUFACTURER	MODEL	REMARKS
												VOLT	PH				

RADIANT PANEL SCHEDULE

MARK	TYPE	FINISH	WIDTH	BTU/LF	SIZE (FT x FT)	BTU	EWT (°F)	LWT (°F)	NO. PASSES	MANUFACTURER	MODEL	REMARKS

REHEAT COIL SCHEDULE

MARK	CFM	SIZE (IN x IN)	MBH	EAT (°F)	LAT (°F)	FACE VEL (FPM)	APD ("WC)	GPM	EWT (°F)	LWT (°F)	WPD (FT)	ROWS	FPI	MANUFACTURER	MODEL	REMARKS

ROOFTOP UNIT SCHEDULE

MARK	DISCHARGE	SUPPLY AIR												RETURN AIR											PREHEAT SECTION																					
		TOTAL CFM	MIN OA CFM	TSP ("WC)	ESP ("WC)	TYPE	SIZE (IN)	RPM	DRIVE	BHP	MOTOR HP	VOLT	PH	TOTAL CFM	TSP ("WC)	ESP ("WC)	TYPE	SIZE (IN)	RPM	DRIVE	BHP	MOTOR HP	VOLT	PH	CFM	INPUT (MBH)	OUTPUT (MBH)	MIN. GAS PRESS. ("WC)	MBH	EAT (°F)	LAT (°F)	GPM	EWT (°F)	LWT (°F)	WPD (FT)	PPH	PSI	KW	STAGES	VOLT	PH	FACE VEL (FPM)	APD ("WC)	ROWS	FPI	EFFICIENCY (%)

ROOFTOP UNIT SCHEDULE (CON'T)

MARK	COOLING COIL															HEATING SECTION																						COMPRESSOR DATA			CONDENSER DATA			PREFILTER					FINAL FILTER					HUMIDIFIER MARK	ENERGY RECOVERY MARK	ELECTRICAL				OPER. WEIGHT (LB)	MANUFACTURER	MODEL	REMARKS
	TOTAL MBH	SENSIBLE MBH	EAT (DB °F)	EAT (WB °F)	LAT (DB °F)	LAT (WB °F)	FACE VEL (FPM)	APD ("WC)	ROWS	FPI	DISCHARGE SP ("WC)	AC COND DRAIN SIZE (IN)	REFRIG. TYPE	REFRIG. CHARGE (lb)	EER	CFM	INPUT (MBH)	OUTPUT (MBH)	MIN. GAS PRESS. ("WC)	MBH	EAT (°F)	LAT (°F)	GPM	EWT (°F)	LWT (°F)	WPD (FT)	PPH	PSI	KW	STAGES	VOLT	PH	FACE VEL (FPM)	APD ("WC)	ROWS	FPI	EFICIENCY (%)	NO (EA)	HP (EA)	CAPACITY STEPS (%)	NO. FANS (EA)	HP (EA)	AAT (°F)	TYPE	MERV	DEPTH (IN)	CLEAN APD ("WC)	DIRTY APD ("WC)	TYPE	MERVE	DEPTH (IN)	CLEAN APD ("WC)	DIRTY APD ("WC)			VOLT	PH	MCA	MOP				

SOLIDS SEPARATOR SCHEDULE

MARK	TYPE	CONFIGURATION	PROFILE	CONNECTIONS			GPM	WPD	CHAMBER VOLUME (GAL)	PUMP HP	VOLT	PH	FLA	OPER. WEIGHT (LB)	MANUFACTURER	MODEL	REMARKS
				INLET (IN)	OUTLET (IN)	PURGE (IN)											

SOUND ATTENUATOR SCHEDULE

MARK	SERVICE	AIR SYSTEM	TYPE	LOCATION	SIZE (INxIN)	LENGTH (IN)	CFM	FPM	APD ("WC)	DYNAMIC INSERTION LOSS (dB)								SELF GENERATED NOISE (dB)								MANUFACTURER	MODEL	REMARKS
										63 Hz	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz	8 KHz	63 Hz	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz	8 KHz			

STEAM PRESSURE REDUCING VALVE SCHEDULE

MARK	SERVICE	PPH	INLET PSI	OUTLET PSI	SIZE (IN)	PORT	PIPE SIZING		SAFETY VALVE			BYPASS VALVE			MANUFACTURER	MODEL	REMARKS
							UPSTREAM (IN)	DOWNSTREAM (IN)	PPH	PSI	DISCHARGE (IN)	SIZE (IN)	UPSTREAM (IN)	DOWNSTREAM (IN)			

SURGE TANK SCHEDULE

MARK	RECEIVER DATA						PUMP DATA								OPER. WEIGHT (LB)	MANUFACTURER	MODEL	REMARKS
	DIA (IN) x LENGTH (IN)	GALLONS	LP RETURN (IN)	VENT (IN)	OVERFLOW (IN)	MAKE UP WATER (IN)	NO	HP (EA)	GPM (EA)	DISCHARGE (PSI)	DISCH MANIFOLD (IN)	RPM	VOLT	PH				

UNIT HEATER SCHEDULE

MARK	TYPE	FAN				HEATING COIL									BOTTOM AFF (FT)	MANUFACTURER	MODEL	REMARKS
		CFM	MOTOR HP	VOLT	PH	MBH	EAT (°F)	LAT (°F)	GPM	EWT (°F)	LWT (°F)	WPD (FT)	PPH	PSI				

UNIT VENTILATOR SCHEDULE

MARK	TYPE	FAN						COOLING COIL													HEATING COIL													MANUFACTURER	MODEL	REMARKS
		CFM	MIN. OA CFM	ESP ("WC)	MOTOR HP	VOLT	PH	TOTAL MBH	SENSIBLE MBH	EAT (DB °F)	EAT (WB °F)	LAT (DB °F)	LAT (WB °F)	GPM	EWT (°F)	LWT (°F)	WPD (FT)	REFRIGERANT	SUCT. TEMP (°F)	CU MARK	MBH	EAT (°F)	LAT (°F)	GPM	EWT (°F)	LWT (°F)	WPD (FT)	PPH	PSI	KW	STAGES	VOLT	PH			

VARIABLE FREQUENCY DRIVE SCHEDULE

MARK	SERVICE	TYPE (PULSE)	MOTOR HP	VOLT	PH	ENCLOSURE	BYPASS	OPER. WEIGHT (LB)	MANUFACTURER	MODEL	REMARKS

WATER SOURCE HEAT PUMP SCHEDULE

MARK	TYPE	FAN						COOLING DATA											HEATING DATA						CONDENSER DATA				AC COND DRAIN PIPING (IN)		ELECTRICAL				OPER. WEIGHT (LB)	MANUFACTURER	MODEL	REMARKS
		CFM	MIN OA CFM.	ESP ("WC)	MOTOR HP	VOLT	PH	TOTAL MBH	SENSIBLE MBH	EAT (DB °F)	EAT (WB °F)	LAT (DB °F)	LAT (WB °F)	HEAT OF REJECT (MBH)	EWT (°F)	REFRIG. TYPE	REFRIG. CHARGE (OZ)	EER	MBH	EAT (°F)	LAT (°F)	HEAT OF ABSORP (MBH)	EWT (°F)	COP	GPM	WPD (FT)	CONNECTIONS (IN)	RUNOUTS (IN)	CONNECTION	RUNOUT	VOLT	PH	MCA	MOP				

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EQUIPMENT ABBREVIATION SCHEDULE

ABBREVIATION	EQUIPMENT DESCRIPTION	VOLTAGE	APPARENT LOAD	MOUNTING HEIGHT	NOTES
AFV	AUTOMATIC FLUSH VALVE	120 V	0.3 kW		COORDINATE LOCATION WITH PLUMBING CONTRACTOR.
ATM	AUTOMATIC TELLING MACHINE	120 V	0.4 kW	18"	
AV	VIDEO EQUIPMENT	120 V	0.4 kW		PROVIDE DUPLEX OUTLET AT EACH VIDEO HIGH AND LOW OUTLET LOCATION. VERIFY EXACT LOCATION WITH ARCHITECT AND TECHNOLOGY CONTRACTOR.
BAS	BUILDING AUTOMATION SYSTEM CONTROL PANEL	120 V	0.4 kW		VERIFY MOUNTING HEIGHT AND LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
BBH	BACKBOARD HEIGHT ADJUSTER	120 V	1.6 kW		PROVIDE NEMA L14-20R RECEPTACLE AND 3#10, 1#10 GND, 3/4"C TO GYMNASIUM CONTROL PANEL. CIRCUIT INDICATED IS FROM LINE SIDE OF CONTROL PANEL.
BBW	BACKBOARD WINCH/LIFT	120 V	1.6 kW		PROVIDE NEMA L14-20R RECEPTACLE AND 3#10, 1#10 GND, 3/4"C TO GYMNASIUM CONTROL PANEL. CIRCUIT INDICATED IS FROM LINE SIDE OF CONTROL PANEL.
BL	BLUE LIGHT EMERGENCY PHONE STATION	120 V	0.2 kW		
COF	COFFEE MACHINE	120 V	1.6 kW	44"	
COPY	COPIER	120 V	1.5 kW	18"	
CRC	CRASH CART	120 V	0.8 kW	36"	
CTR	COUNTER TOP REFRIGERATOR	120 V	0.4 kW	44"	
DRY	DRYER - ELECTRIC	208 V	5.6 kW	36"	PROVIDE NEMA 14-30R RECEPTACLE. BRANCH CIRCUITING SHALL BE 3#10, 1#10GND - 3/4"C WITH 30A/2P CIRCUIT BREAKER. VERIFY EXACT REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.
DSH	DISHWASHER	120 V	1.2 kW	18"	COORDINATE EXACT LOCATION WITH ARCHITECT AND CASEWORK PLANS PRIOR TO ROUGH-IN.
EWC	ELECTRIC WATER COOLER	120 V	1.0 kW	18"	
EXL	EXAM LIGHT	120 V	0.2 kW		MOUNTED TO STRUCTURE ABOVE ACCESSIBLE CEILING.
FSD	FIRE / SMOKE DAMPER	120 V	1.2 kW		PROVIDE HARDWIRED CONNECTION AT DAMPER LOCATION. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR. CONNECT MAXIMUM OF 6 DAMPERS TO SINGLE CIRCUIT.
GD	GARBAGE DISPOSAL	120 V	1.2 kW		PROVIDE SEAL-TITE CONNECTION TO DISPOSAL. PROVIDE TOGGLE SWITCH FOR CONTROL. COORDINATE TOGGLE SWITCH LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
HD	HAND DRYER	120 V	2.3 kW		PROVIDE 2#10, 1#10 GND - 3/4"C TO 30A/1P CIRCUIT BREAKER.
HOOD	EXHAUST HOOD	120 V	0.2 kW		
ICE	ICE MACHINE	120 V		44"	
IH	INSTA-HOT	120 V	1.2 kW	18"	MOUNTED IN CASEWORK UNDER SINK.
KILN	ART KILN	208 V	11.0 kW		PROVIDE NEMA 15-50R RECEPTACLE. BRANCH CIRCUIT SHALL BE 3#6, 1#10 GND - 1"C WITH 50A/3P CIRCUIT BREAKER.
KTC	KRONOS TIME CLOCK	120 V	0.6 kW	48"	MOUNTED IN WALL BEHIND TIME CLOCK.
MCP	MECHANICAL CONTROL POWER	120 V	1.2 kW		MOUNTED TO STRUCTURE ABOVE ACCESSIBLE CEILING.
MGA	MEDICAL GAS ALARM PANEL	120 V	1.2 kW		
MSH	MOTORIZED SHADE	120 V	0.6 kW		SHADE AND CONTROL FURNISHED AND INSTALLED BY GC, WIRED BY EC. MOUNTED ON WALL ABOVE ACCESSIBLE CEILING.
MW	MICROWAVE	120 V	1.6 kW		
OH	OVERHEAD DOOR	120 V	1.2 kW		
PD	POWERED DOOR	120 V	0.6 kW		MOUNTED ON WALL ABOVE CEILING GRID.
PR	PRINTER	120 V	0.6 kW	18"	
PRJ	PROJECTOR	120 V	1.2 kW	CEILING	-
PTS	PNEUMATIC TUBE SYSTEM	120 V	0.8 kW		
PTZ	PAN/TILT/ZOOM CAMER	120 V	0.2 kW		COORDINATE FINAL MOUNTING LOCATION WITH LOW VOLTAGE CONTRACTOR PRIOR TO ROUGH-IN.
PX	PYXIS	120 V	0.6 kW	72"	
PXC	PYXIS CONSOLE	120 V	0.8 kW	48"	
PXR	PYXIS REFRIGERATOR	120 V	0.8 kW	72"	
RAN	RANGE - ELECTRIC	208 V	10.0 kW	36"	PROVIDE NEMA 14-50R RECEPTACLE. BRANCH CIRCUIT SHALL BE 3#6, 1#10GND - 1"C WITH 50A/2P CIRCUIT BREAKER. VERIFY RECEPTACLE TYPE WITH GC.
REF	REFRIGERATOR	120 V	1.6 kW	44"	
SCL	SCALE	120 V	0.2 kW	18"	
SCR	MOTORIZED PROJECTION SCREEN	120 V	0.6 kW		WIRE AND INSTALL PROJECTION SCREEN CONTROL SWITCH. CONTROL SWITCH FURNISHED BY GC. COORDINATE SWITCH LOCAITON WITH ARCHITECT PRIOR TO ROUGH-IN.
SUMP	SUMP PUMP	120 V	0.2 kW	18"	VERIFY EXACT LOCATION WITH PC PRIOR TO ROUGH-IN.
TCP	TEMPERATURE CONTROL POWER	120 V	0.6 kW		MOUNTED TO STRUCTURE ABOVE ACCESSIBLE CEILING. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.
TP	TRAP PRIMER	120 V	0.6 kW		COORDINATE INSTALLATION WITH PC
TR	TECHNOLOGY RACK	120 V	1.6 kW		MOUNTED ON OUTSIDE OF RAIL OF TECHNOLOGY RACK. VERIFY MOUNTING HEIGHT.
TV	TELEVISION	120 V	0.4 kW	72"	MOUNTED NEXT TO VIDEO OUTLET.
UCF	UNDERCOUNTER FREEZER	120 V	0.6 kW	18"	
UCR	UNDERCOUNTER REFRIGERATOR	120 V	0.6 kW	18"	
VG	VIDEO GAME	120 V	0.5 kW	18"	
VM	VENDING MACHINE	120 V	1.5 kW	44"	
W/D	STACK WASHER / DRYER	120 V	6.0 kW	36"	PROVIDE NEMA 14-30R RECEPTACLE. BRANCH CIRCUIT SHALL BE 3#10, 1#10 GND - 3/4"C WITH 30A/2P CIRCUIT BREAKER. VERIFY EXACT REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.
WC	WARMING CABINET	120 V	1.4 kW	36"	
WHP	WHIRLPOOL	120 V	0.8 kW		
WOW	WORKSTATION ON WHEELS	120 V	0.4 kW	36"	
XVB	X-RAY VIEWBOX (RECESSED)	120 V	0.2 kW		
ZVB	ZONE VALVE BOX	120 V	0.2 kW		

FLOOR BOX/POKE THROUGH FITTING SCHEDULE

DESIGNATION TYPE	NUMBER OF COMPARTMENTS	DESCRIPTION	CATALOG NUMBER	NOTES
F1	1			
F2	2			
F3	3			
F4	4			
F6	6			
F8	8			
P2	2			
P3	3			
P5	5			

Lighting and Appliance Panelboard: PP1

Location:
Supply From:
Mounting: Surface

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 225 A

Notes:

CKT	Circuit Description	Trip Amps	Poles	A	B	C	Poles	Trip Amps	Circuit Description	CKT
1										2
3										4
5										6
7										8
9										10
11										12
13										14
15										16
17										18
19										20
21										22
23										24
25										26
27										28
29										30
31										32
33										34
35										36
37										38
39										40
41										42
		Total Load:		0.0 kW	0.0 kW	0.0 kW				
		Total Amp:		0 A	0 A	0 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0.0 kW
				Total Est. Demand:	0.0 kW
				Total Conn.:	0 A
				Total Est. Demand:	0 A

WIRING DEVICE SYMBOL LEGEND

SYMBOL	DESCRIPTION
	CONDUIT STUB
	CONDUIT TURNED DOWN
	CONDUIT TURNED UP
	CONDUIT INSTALLED BELOW GRADE OR BELOW FINISHED FLOOR
E-1 / E-1	ELECTRICAL CONNECTION TO EQUIPMENT ITEM 'E-1' (LETTER DESIGNATION AS APPLICABLE) - SEE CORRESPONDING EQUIPMENT CONNECTION SCHEDULE
	DUPLEX RECEPTACLE AT 18" AFF, UON
	DOUBLE DUPLEX RECEPTACLE AT 18" AFF, UON, TYPE AS INDICATED ON DRAWINGS
	DUPLEX RECEPTACLE MOUNTED 8" ABOVE COUNTER, UON
	DOUBLE DUPLEX RECEPTACLE MOUNTED 8" ABOVE COUNTER, UON
	DUPLEX RECEPTACLE GROUND FAULT CIRCUIT INTERRUPTER TYPE AT 18" AFF, UON
	DOUBLE DUPLEX RECEPTACLE GROUND FAULT CIRCUIT INTERRUPTER TYPE AT 18" AFF, UON
	DUPLEX RECEPTACLE GROUND FAULT CIRCUIT INTERRUPTER MOUNTED 8" ABOVE COUNTER, UON
	DOUBLE DUPLEX RECEPTACLE GROUND FAULT CIRCUIT INTERRUPTER MOUNTED 8" ABOVE COUNTER, UON
	DUPLEX RECEPTACLE TAMPER RESISTANT SAFETY TYPE AT 18" AFF, UON
	DOUBLE DUPLEX RECEPTACLE TAMPER RESISTANT SAFETY TYPE AT 18" AFF, UON
	DUPLEX RECEPTACLE TAMPER RESISTANT SAFETY AND GROUND FAULT CIRCUIT INTERRUPTER TYPE AT 18" AFF, UON
	DOUBLE DUPLEX RECEPTACLE TAMPER RESISTANT SAFETY AND GROUND FAULT CIRCUIT INTERRUPTER TYPE AT 18" AFF, UON
	SPECIAL PURPOSE SINGLE RECEPTACLE - NEMA CONFIGURATION AND HEIGHT AS INDICATED ON DRAWINGS
	SPECIAL PURPOSE RECEPTACLE - HEIGHT AS INDICATED ON DRAWINGS
	DUPLEX RECEPTACLE ON EMERGENCY BRANCH CIRCUIT AT 18" AFF, UON
	DOUBLE DUPLEX RECEPTACLE ON EMERGENCY BRANCH CIRCUIT AT 18" AFF, UON
	DUPLEX RECEPTACLE ON EMERGENCY BRANCH CIRCUIT MOUNTED 8" ABOVE COUNTER, UON
	DOUBLE DUPLEX RECEPTACLE ON EMERGENCY BRANCH CIRCUIT MOUNTED 8" ABOVE COUNTER, UON
	DUPLEX RECEPTACLE GROUND FAULT CIRCUIT INTERRUPTER TYPE ON EMERGENCY BRANCH CIRCUIT AT 18" AFF, UON
	DOUBLE DUPLEX RECEPTACLE GROUND FAULT CIRCUIT INTERRUPTER TYPE ON EMERGENCY BRANCH CIRCUIT AT 18" AFF, UON
	DUPLEX RECEPTACLE GROUND FAULT CIRCUIT INTERRUPTER ON EMERGENCY BRANCH CIRCUIT MOUNTED 8" ABOVE COUNTER, UON
	DOUBLE DUPLEX RECEPTACLE GROUND FAULT CIRCUIT INTERRUPTER ON EMERGENCY BRANCH CIRCUIT MOUNTED 8" ABOVE COUNTER, UON
	DUPLEX RECEPTACLE TAMPER RESISTANT SAFETY TYPE ON EMERGENCY BRANCH CIRCUIT AT 18" AFF, UON
	DOUBLE DUPLEX RECEPTACLE TAMPER RESISTANT SAFETY TYPE ON EMERGENCY BRANCH CIRCUIT AT 18" AFF, UON
	DUPLEX RECEPTACLE TAMPER RESISTANT SAFETY AND GROUND FAULT CIRCUIT INTERRUPTER TYPE ON EMERGENCY BRANCH CIRCUIT AT 18" AFF, UON
	DOUBLE DUPLEX RECEPTACLE TAMPER RESISTANT SAFETY AND GROUND FAULT CIRCUIT INTERRUPTER TYPE ON EMERGENCY BRANCH CIRCUIT AT 18" AFF, UON
	DUPLEX RECEPTACLE ISOLATED GROUND TYPE AT 18" AFF, UON
	DOUBLE DUPLEX RECEPTACLE ISOLATED GROUND TYPE AT 18" AFF, UON
	SPECIAL PURPOSE SINGLE RECEPTACLE ISOLATED GROUND TYPE
	SURFACE RACEWAY
J	JUNCTION BOX - MOUNTING HEIGHT AND SIZE AS REQUIRED BY CODE OR AS NOTED ON DRAWINGS
	VERTICAL SERVICE POLE
	COMBINATION IN FLOOR POWER / DATA / A/V DEVICE. FOR ADDITIONAL INFORMATION, REFER TO FLOORBOX AND POKE THROUGH SCHEDULE AND DETAILS 'F' = FLOORBOX DEVICE 'P' = POKE THROUGH DEVICE
	PUSHBUTTON OPERATOR FOR MOTOR CONTROL AT 44" CL AFF, UON
	PUSHBUTTON OPERATOR AT 44" CL AFF, UON
T	AUTOMATIC DOOR PUSH PLATE AT 44" CL AFF, UON
	SINGLE OR THREE PHASE MOTOR - SEE DRAWINGS FOR DESCRIPTION
	STANDALONE SINGLE RECESSED RECEPTACLE WITH CLOCK HANGER AT 90" AFF, UON 'CL' = RECEPTACLE AND CLOCK FURNISHED AND INSTALLED BY EC
CR	CORD REEL

LIGHTING & CONTROL SYMBOL LEGEND

SYMBOL	DESCRIPTION
$	SWITCH AT 44" CL AFF, UON E = EMERGENCY CIRCUIT LV = LOW VOLTAGE MF = MANUAL MOTOR STARTER - FLUSH MOUNTED MS = MANUAL MOTOR STARTER - SURFACE MOUNTED
$$	TWO SWITCHES IN COMMON BOX - FOR MULTILEVEL CONTROL AT 44" CL AFF, UON
	DIMMER, FLUORESCENT UON AT 44" CL AFF, UON
	LIGHTING CONTROL OCCUPANCY SENSOR - WALL MOUNTED AT 44" CL AFF, UON
	LIGHTING CONTROL OCCUPANCY SENSOR - CEILING MOUNTED
P	LIGHTING CONTROL PHOTOCELL
	LUMINAIRE - MOUNTED AS INDICATED ON DRAWINGS
	LUMINAIRE - AT CEILING, SURFACE OR RECESSED MOUNTED
	LUMINAIRE WITH DIRECT/INDIRECT DISTRIBUTION AT CEILING, RECESSED OR SURFACE MOUNTED. CENTER BASKET AND/OR SIDE BASKETS SHALL BE ORIENTED AS SHOWN.
	TRACK LUMINAIRE AND TRACK- MOUNTED AS INDICATED ON DRAWINGS
	MONOPOINT TRACK LUMINAIRE - MOUNTED AS INDICATED ON DRAWINGS
	LUMINAIRE, WALL WASHER OR ADJUSTABLE - AT CEILING
	LUMINAIRE - WALL MOUNTED AT HEIGHT AS INDICATED ON DRAWINGS
	LUMINAIRE - AT CEILING, SURFACE OR RECESSED MOUNTED
	LUMINAIRE DESIGNATED AS NIGHT LIGHT WITH NO LIGHTING CONTROL FOR EGRESS - AT CEILING, RECESSED OR SURFACE MOUNTED
	LUMINAIRE WITH OUTER LAMPS DESIGNATED AS NIGHT LIGHT WITH NO LIGHTING CONTROL FOR EGRESS - AT CEILING, RECESSED OR SURFACE MOUNTED
	LUMINAIRE WITH LIGHTING CONTROL WIRED TO EMERGENCY CIRCUIT - AT CEILING, RECESSED OR SURFACE MOUNTED
	LUMINAIRE WITH LIGHTING CONTROL, OUTER [MIDDLE] LAMPS WIRED TO EMERGENCY CIRCUIT - AT CEILING, RECESSED OR SURFACE MOUNTED
	EXIT SIGN WITH INDICATING FACE - CEILING MOUNTED
	EXIT SIGN WITH INDICATING FACE AND ARROW(S) - WALL MOUNTED
	EMERGENCY LIGHTING BATTERY PACK - SURFACE MOUNTED
	EMERGENCY LIGHTING BATTERY PACK - RECESSED IN WALL
	EMERGENCY LIGHTING BATTERY PACK - CEILING MOUNTED, RECESSED OR SURFACE, UON
	POLE MOUNTED LUMINAIRE - REFER TO DRAWINGS AND LUMINAIRE SCHEDULE FOR QUANTITY AND ORIENTATION
	POST TOP SITE LUMINAIRE
	LUMINAIRE - GROUND MOUNTED. ARROW INDICATES DIRECTION OF LIGHT DISTRIBUTION.
	BOLLARD LUMINAIRE

DISTRIBUTION SYMBOL LEGEND

SYMBOL	DESCRIPTION
	PANELBOARD (120/240V, 1 PHASE, 3 WIRE)
	PANELBOARD (208Y/120V, 3 PHASE, 4 WIRE)
	PANELBOARD (480Y/277V, 3 PHASE, 4 WIRE)
30AS	NON-FUSED DISCONNECT SWITCH IN AN ENCLOSURE - SIZE AS INDICATED
	[SHUNT TRIP] CIRCUIT BREAKER IN AN ENCLOSURE
30AS 30AF	FUSED DISCONNECT SWITCH IN AN ENCLOSURE - SIZE AND FUSING AS INDICATED
30AS 30AF	COMBINATION MAGNETIC MOTOR STARTER/DISCONNECT SWITCH IN AN ENCLOSURE - FUSING AS INDICATED
T	TRANSFORMER

FIRE ALARM SYMBOL LEGEND

SYMBOL	DESCRIPTION
FAAP	FIRE ALARM ANNUNCIATOR PANEL - WALL MOUNTED AT 60" AFF TO CENTER, UON
FACP	FIRE ALARM CONTROL PANEL - WALL MOUNTED AT 72" AFF TO TOP, UON
P	FIRE ALARM PULL STATION AT 44" AFF. UON
	FIRE ALARM VISUAL DEVICE ROUGH-IN SUCH THAT BOTTOM OF LENS IS NO LESS THAN 80" AFF. FIRE ALARM AUDIO/VISUAL DEVICE ROUGH-IN SUCH THAT BOTTOM OF VISUAL LENS IS NO LESS THAN 80" AFF.
	FIRE ALARM SPEAKER - WALL MOUNTED AT 80" AFF TO BOTTOM OF DEVICE, UON
	FIRE ALARM SMOKE DETECTOR - CEILING MOUNTED, UON
	FIRE ALARM SMOKE DETECTOR - WALL MOUNTED AT HEIGHT AS INDICATED ON DRAWINGS
HD	FIRE ALARM HEAT DETECTOR - CEILING MOUNTED, UON
HD	FIRE ALARM HEAT DETECTOR - WALL MOUNTED AT HEIGHT AS INDICATED ON DRAWINGS
	FIRE ALARM FIREMANS [TELEPHONE] [TELEPHONE JACK] AT 48" AFF, UON
D	FIRE ALARM MAGNETIC DOOR HOLDER AT 72" AFF, UON
D	FIRE ALARM DOOR HOLDER INTEGRAL WITH DOOR HARDWARE
	DUCT SMOKE DETECTOR TEST STATION

LIGHTING CIRCUITING GUIDE

SYMBOL	DESCRIPTION
B / X1	LIGHTING CIRCUITING DESIGNATION X: REFER TO PANEL SCHEDULE ABBREVIATION KEY, PER DRAWING 1: CIRCUIT NUMBER
	a,b: SWITCHING SCHEME z#: LIGHTING CONTROL ZONE NUMBER r#: LIGHTING CONTROL RELAY NUMBER
	LIGHTING DESIGNATION REFER TO LUMINAIRE SCHEDULE

POWER CIRCUITING GUIDE

SYMBOL	DESCRIPTION
XXX X1	POWER CIRCUITING DESIGNATION X: REFER TO PANEL SCHEDULE ABBREVIATION KEY, PER DRAWINGS 1: CIRCUIT NUMBER
	DEVICE, JUNCTION BOX, FLOOR BOX, ETC.
	EQUIPMENT ABBREVIATION, REFER TO EQUIPMENT ABBREVIATION SCHEDULE FOR ADDITIONAL INFORMATION

MECHANICAL EQUIPMENT SCHEDULE

DRAWING	MARK		COMMENTS	VOLTAGE	PHASE	HP	FLA	KW	CONN.	WIRING	PANEL	CKT#	SWITCH OR STARTER RATINGS: SWITCH / FUSE / STARTER	REMARKS
	ABC	1		0	1			0.0	CSD					
	ABC	2		0	1			0.0	DC					
	ABC	3		0	1			0.0	DS					

MECHANICAL EQUIPMENT CONNECTION LEGEND

MECH CONNECTION	MECHANICAL CONNECTION DESCRIPTION
CSD	COMBINATION MOTOR STARTER / FUSED DISCONNECT SWITCH WITH STARTER TYPE, SWITCH AND FUSE RATING AS SCHEDULED
DC	DIRECT CONNECTION. PROVIDE JUNCTION BOX AND SEALTITE CONNECTION. (MECHANICAL EQUIPMENT FURNISHED WITH INTEGRAL MEANS OF DISCONNECT)
DS	UNFUSED DISCONNECT SWITCH

LUMINAIRE SCHEDULE

TYPE	LAMP(S)			BALLAST(S)		FIXTURE		FIXTURE DESCRIPTION	CATALOG SERIES	NOTES
	TYPE	WATTS	QUANTITY	TYPE	QUANTITY	WATTAGE	VOLTAGE			
DL1	LED	0	0	D	1	0 W	120 V			
R1	T8	0	0	E		0 W	120 V			
X1	LED	0	NA	NA	NA	0 W	UNIV			

LAMP DESCRIPTION SCHEDULE

LAMP	LAMP DESCRIPTION
LED	LIGHT EMITTING DIODE
T8	LINEAR FLUORESCENT

BALLAST DESCRIPTION SCHEDULE

BALLAST TYPE	BALLAST DESCRIPTION
D	DIMMING
E	ELECTRONIC
NA	NOT APPLICABLE

TRANSFORMER SCHEDULE

DESIGNATION	kVA	PRIMARY VOLTAGE	SECONDARY VOLTAGE	MOUNTING	SECONDARY CONDUCTORS	GROUND ELECTRODE CONDUCTOR	BONDING JUMPER	CONDUIT	K-RATING
T-1	150								

REV. NO.	DESCRIPTION	DATE

PROJECT NAME
kBIM TEMPLATE

SHEET TITLE
ELECTRICAL SYMBOLS AND SCHEDULES

DRAWN BY: Author
APPROVED BY: Approver
PROJECT NO: Project Number
DATE: Issue Date

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

E100
SHEET NUMBER

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WORKING SCHEDULE TO BE USED TO HELP WITH DESIGN

Technology Cable Count Schedule

Space: Tech Room ID	Faceplate	Data Cables	Phone Cables	COAX Cables	Family and Type
TECH ROOM 1					
TECH ROOM 1	A	1	2	1	kBIM_Data: Standard Outlet - Rough-In
TECH ROOM 1	A	1	2	1	kBIM_Data: Standard Outlet - Rough-In
TECH ROOM 1	B	1	2	1	kBIM_Data: Above Counter Outlet
TECH ROOM 1: 3		3	6	3	
TECH ROOM 2					
TECH ROOM 2	B	1	2	1	kBIM_Data: Above Counter Outlet
TECH ROOM 2	C	2	2	2	kBIM_Data: Standard Outlet
TECH ROOM 2	C	2	2	2	kBIM_Data: Standard Outlet
TECH ROOM 2: 3		5	6	5	

PLAN NOTES

1 PLAN NOTE EXAMPLE 1 PLAN NOTE EXAMPLE 1 PLAN NOTE EXAMPLE 1 PLAN NOTE EXAMPLE 1 PLAN NOTE EXAMPLE 1 PLAN NOTE EXAMPLE 1
2 PLAN NOTE EXAMPLE 2
3 PLAN NOTE EXAMPLE 3
4 PLAN NOTE EXAMPLE 4
5 PLAN NOTE EXAMPLE 5

TECHNOLOGY SYMBOL LEGEND

SYMBOL	DESCRIPTION
—— C ——	CONDUIT PATHWAY
—— J ——	J-HOOK PATHWAY
—— C ——⊣	CONDUIT STUB
—— C ——●	CONDUIT TURNED DOWN
—— C ——○	CONDUIT TURNED UP
— — —	CONDUIT INSTALLED BELOW GRADE OR BELOW FINISHED FLOOR
▶	WORK AREA DEVICE AT 18" AFF, UON. FOR ADDITIONAL INFORMATION, REFER TO FACEPLATE DETAILS.
▷	VOICE/DATA ROUGH-IN OUTLET BOX AT 18" AFF, UON
⊙	COMBINATION IN FLOOR POWER / DATA / A/V DEVICE. FOR ADDITIONAL INFORMATION, REFER TO FLOORBOX AND POKE THROUGH SCHEDULE AND DETAILS. 'FX' = FLOORBOX DEVICE "X" 'PX' = POKE THROUGH DEVICE "X"
◐▶	WORK AREA DEVICE AT 8" ABOVE COUNTER, UON.
◐▷	VOICE/DATA ROUGH-IN OUTLET BOX AT 8" ABOVE COUNTER, UON
⊕	WIRELESS ACCESS DROP LOCATION, CEILING MOUNTED
◨	VERTICAL SERVICE POLE
▬▭▬▭	SURFACE RACEWAY - REFER DRAWINGS FOR REQUIREMENTS
⟨N⟩	NURSE CALL DEVICE AT 48" AFF, UON
(N)	NURSE CALL DEVICE - CEILING MOUNTED
⊟	PUSHBUTTON
⟨A⟩	AUDIO DEVICE AT 18" AFF, UON
(A)	AUDIO DEVICE - RECESSED IN CEILING, UON
[A]	AUDIO DEVICE - IN FLUSH FLOOR BOX
⟨P⟩	PAGING DEVICE
(P)	PAGING SPEAKER - RECESSED IN CEILING, UON
⟨V⟩	VIDEO (ROUGH-IN OUTLET BOX)(DEVICE) AT (18")(84") AFF, UON
(V)	VIDEO (ROUGH-IN OUTLET BOX)(DEVICE) CEILING MOUNTED
[V]	VIDEO (ROUGH-IN OUTLET BOX)(DEVICE) - IN FLUSH FLOOR BOX, UON
⊢▭	CLOSED CIRCUIT TELEVISION CAMERA AT 90" AFF, UON
▭	CLOSED CIRCUIT TELEVISION CAMERA - CEILING MOUNTED
⊟	SECURITY SYSTEM (CARD READER)(ROUGH-IN OUTLET BOX) AT 48" AFF, UON
⬓	SECURITY SYSTEM MAGLOCK - MOUNTED AS INDICATED ON DRAWINGS
─▣	SECURITY SYSTEM ELECTRIC DOOR STRIKE- MOUNTED AS INDICATED ON DRAWINGS
⟨S⟩	SECURITY SYSTEM (ROUGH-IN OUTLET BOX)(DEVICE) AT 48" AFF, UON
⧄	SECURITY SYSTEM DOOR CONTACTS - MOUNTED AS INDICATED ON DRAWINGS
(S)	SECURITY SYSTEM (ROUGH-IN OUTLET BOX)(DEVICE) - CEILING MOUNTED
⟨I⟩	INTERCOM STATION AT 48" AFF, UON
(I)	INTERCOM SPEAKER - RECESSED IN CEILING, UON
┬──┬	GROUNDING BUSBAR
⊞	19" TECHNOLOGY EQUIPMENT OPEN RACK, DUAL UPRIGHT WITH VERTICAL MANAGEMENT, UON.

REV. NO.	DESCRIPTION	DATE

PROJECT NAME
kBIM TEMPLATE

SHEET TITLE
TECHNOLOGY SYMBOLS AND SCHEDULE

kBIM

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