CABINET UNIT HEATERS (BASIS FOR DESIGN: RITTLING U.O.N.)

TAG	LOCATION	CFM	MBH	AIR DATA		WATER DATA				ELECTRICAL				MANUFACTURER AND MODEL	NOTES
				EAT (°F)	LAT (°F)	GPM	EWT (°F)	LWT (°F)	WPD (FT)	VOLTAGE	PHASE	MOTOR FLA	H		
HWCH-L-1	CORRIDOR 108	200	8.0	60	99	0.6	160	130	0.1	120	1	0.52	⅛	RS-200-03	1,2
HWCH-L-2	VESTIBULE 100	200	8.0	60	99	0.6	160	130	0.1	120	1	0.52	⅛	RS-200-03	1,2
HWCH-L-3	VESTIBULE 109	200	8.0	60	99	0.6	160	130	0.1	120	1	0.52	⅛	RS-200-03	1,2
HWCH-2-1	VESTIBULE 200	420	14.7	60	120	1.0	160	130	0.2	120	1	0.58	⅛	RS-200-04	1,2

NOTES:

1. ALL CABINET UNIT HEATERS SHALL BE SEMI-RECESSED TYPE, AND FURNISHED WITH HIGH STATIC MOTOR, DISCONNECT SWITCH, AND RETURN AIR TEMPERATURE CONTROL.
2. PROVIDE WITH BOTTOM INTAKE AND TOP DISCHARGE.

UNIT HEATERS (BASIS FOR DESIGN: RITTLING U.O.N.)

TAG	LOCATION	CFM	MBH	AIR DATA		WATER DATA				ELECTRICAL				MANUFACTURER AND MODEL	NOTES
				EAT (°F)	LAT (°F)	GPM	EWT (°F)	LWT (°F)	WPD (FT)	VOLTAGE	PHASE	MOTOR FLA	HP		
UH-LL-1	CORRIDOR 108	200	8.0	60	99	0.6	160	130	0.1	120	1	0.52	⅛	RS-200-03	1,2
UH-LL-2	VESTIBULE 100	200	8.0	60	99	0.6	160	130	0.1	120	1	0.52	⅛	RS-200-03	1,2
UH-LL-3	VESTIBULE 109	200	8.0	60	99	0.6	160	130	0.1	120	1	0.52	⅛	RS-200-03	1,2
UH-LL-4	VESTIBULE 200	420	14.7	60	120	1.0	160	130	0.2	120	1	0.58	⅛	RS-200-04	1,2
UH-G-1	GARAGE #1 300	3900	96.7	50	73	6.5	160	130	0.5	120	1	3.6	⅓	RH-258	1,2
UH-G-2	GARAGE #1 300	3900	96.7	50	73	6.5	160	130	0.5	120	1	3.6	⅓	RH-258	1,2
UH-G-3	GARAGE #1 300	3900	96.7	50	73	6.5	160	130	0.5	120	1	3.6	⅓	RH-258	1,2
UH-G-4	GARAGE #1 300	3900	96.7	50	73	6.5	160	130	0.5	120	1	3.6	⅓	RH-258	1,2
UH-G-5	GARAGE #1 300	3900	96.7	50	73	6.5	160	130	0.5	120	1	3.6	⅓	RH-258	1,2
UH-G-6	GARAGE #2 301	5130	156.3	50	78	10.4	160	130	05	208	1	2.2	½	RH-340	1,2
UH-M-1	MEZZANINE 302	1120	24.0	50	70	1.8	160	130	0.1	120	1	1.3	⅒	RH-63	1,2
UH-M-2	MEZZANINE 302	1120	24.0	50	70	1.8	160	130	0.1	120	1	1.3	⅒	RH-63	REACT
UH-R-1	REACT MEZZANINE	3900	96.7	50	73	65	160	130	0.5	120	1	3.6	⅓	RH-258	1,2
UH-R-2	REACT MEZZANINE	3900	96.7	50	73	65	160	130	0.5	120	1	3.6	⅓	RH-258	1,2

NOTES:

1. ALL UNIT HEATERS SHALL BE PROVIDED WITH VIBRATION ISOLATORS, AND FURNISHED WITH HIGH SPEED FAN, AND DISCONNECT SWITCH.
2. UNIT HEATERS TO BE VERTICAL WITH HORIZONTAL DISCHARGE.

ELECTRIC BASEBOARD HEATER SCHEDULE

TAG	LOCATION	CAPACITY		ELECTRICAL DATA			MANUFACTURER AND MODEL	NOTES
		WATTS PER LINEAR FOOT	TOTAL CAPACITY (KW)	VOLTAGE	PHASE	MAX RATED AMPS		
EFTR-1	REACT WOMEN'S RM 311	250.0	1.0	208	1	4.8	BERKO BKOC2504W	1

NOTES:

1. PROVIDE WITH DISCONNECT SWITCH AND INTEGRAL THERMOSTAT.

DEHUMIDIFIERS

TAG	LOCATION	SERVICE	CAP (LBS/HR)	TOTAL AIRFLOW (CFM)	SPACE CONDITIONS		ELECTRICAL				MANUFACTURER AND MODEL	NOTES
					DEG F	%RH	VOLTAGE	PHASE	FLA (AMPS)	WEIGHT (LBS)		
DH-1	RM 112	RM 112	3.0	200	75	50	120	1	5.8	56	DRISTEEM - RL-3	1,2,3,4
DH-2	RM 112	RM 112	3.0	200	75	50	120	1	5.8	56	DRISTEEM - RL-3	1,2,3,4

NOTES:

1. PROVIDE WITH DISCONNECT SWITCH, 8 FT LONG POWER CORD AND MERV-11 AIR FILTER.
2. PROVIDE WITH BACNET HUMIDISTAT CONTROLLER (TO BE MOUNTED REMOTELY IN WALL).
3. PROVIDE WITH VIBRATION ISOLATORS, DUCT KIT AND HANGING KIT.
4. PROVIDE BACnet INTERFACE WITH BASE BUILDINGS BMS. BACnet INTERFACE SHALL ALLOW SETPOINT ADJUSTMENT AND REMOTE MONITORING.

ELECTRIC DUCT HEATER SCHEDULE

TAG	LOCATION	AIR DATA					ELECTRICAL CHARACTERISTICS			COIL SIZE			MANUFACTURER AND MODEL	NOTES
		CFM	BTUH	EAT (°F)	LAT (°F)	MAX. PD (IN)	CAPACITY (KW)	V/PH	AMPS	STEPS	HEIGHT (IN)	WIDTH (IN)		
EDH-1	CELLAR MER	450	8,533	60	64	-	2.5	208/ 3	22.21	-	14	6	NEPTRONIC MODEL DF C100H	1-2

NOTES:

PROVIDE WITH THE FOLLOWING FEATURES/OPTIONS:
1. MAGNETIC CONTACTOR FULL BREAK
2. AUTOMATIC THERMAL CUT-OUT
3. SECONDARY PROTECTION
4. TRANSFORMER WITH FUSE
5. MANUAL THERMAL CUTOUT
6. PDS FIXED, C/W PITOT TUBE
7. DOOR INTERLOCK DISCONNECT SWITCH
8. SLIP-IN DUCT HEATER
9. FULL MODULATING COIL WITH SCR CONTROL
10. ELECTRONIC AIRFLOW SENSORS
11. NEPTRONIC CONTROLLER
12. SOLID STATE RELAY
13. CONTROL PANEL NEMA 1

ELECTRIC CABINET HEATER SCHEDULE

TAG	LOCATION	AIR DATA					ELECTRICAL CHARACTERISTICS			COIL SIZE			MANUFACTURER AND MODEL	NOTES
		CFM	BTUH	EAT (°F)	LAT (°F)	MAX. PD (IN)	CAPACITY (KW)	V/PH	AMPS	STEPS	HEIGHT (IN)	WIDTH (IN)		
ECH-L-1	CELLAR STAIRS	245	6,824	60	8	-	2	208/ 1	9.6	-	20	15	QMARK MODEL CWH3408F	1-2

NOTES:

PROVIDE WITH THE FOLLOWING FEATURES/OPTIONS:
1. SEMI-RECESSED FRAME
2. ON-OFF SWITCH
3. FRONT COVER

FAN SCHEDULE

TAG	LOCATION	AREA SERVED	CFM	ESP (IN. WC)	FAN RPM	BHP	HP	TYPE	DRIVE	STARTER	ELECTRICAL DATA				WEIGHT	MANUFACTURER AND MODEL	NOTES
											VOLTAGE	PHASE	FLA (AMPS)	MOP (AMPS)			
EF-L-1	CELLAR	WMEN'S LOCKERS 118	50	0.25	501	0.01	0.01	INLINE	DIRECT	-	115	1	0.5	15	23	GREENHECK CSP-A20	1,3
EF-1	ROOF	MEN'S LOCKERS 211	300	0.35	1490	0.05	1/10	ROOF EXH.	DIRECT	YES	115	1	1.4	15	38	GREENHECK G-080-VG	1,3,4
EF-2	ROOF	WMEN'S LOCKERS RM 209	150	0.38	1550	0.02	1/30	ROOF EXH.	DIRECT	-	115	1	0.3	15	26	GREENHECK CUE-070-D	1,3,4
GEF-1	GARAGE MEZZANINE	GARAGE 31 300	6,450	0.7	905	1.29	3	INLINE	DIRECT	VFD	208	3	4.7	15	205	GREENHECK SQ-22-M2-VG	2,3,5
GEF-2	GARAGE #2 301	GARAGE #2 301	300	0.4	962	0.07	51 W	INLINE	DIRECT	—	115	1	3.0	15	49	GREENHECK CSP-A1050-VG	2,3,5
GEF-3	REACT UNIT 310	REACT UNIT 310	1,300	0.7	1420	0.28	½	INLINE	DIRECT	VFD	115	1	8.2	15	48	GREENHECK G-120-VG	2,3,6
TX-1	ROOF	ADMIN BLDG BTHRMS	600	0.5	1244	0.1	¼	ROOF EXH.	DIRECT	YES	115	1	4.0	15	51	GREENHECK G-099-VG	1,4
TX-R-1	CEILING	REACT BTHRMS 310 & 311	150	0.6	1329	0.05	0.05	INLINE		-	115	1	1.5	15	24	GREENHECK CSP-A390-VG	1,3

NOTES:
1. PROVIDE EC MOTOR WITH MOUNTED POTENTIOMETER DIAL.
2. PROVIDE INVERTER DUTY RATED MOTOR SUITABLE FOR USE WITH VFD.
3. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH AND VIBRATION ISOLATORS.
4. PROVIDE 12 INCHES HIGH ROOF CURB FOR ROOF MOUNTED FANS.
5. INTERLOCK TO CO / NO SENSORS, MOTORIZED DAMPERS AND MAKE UP AIR UNIT SERVING THE SPACE.
6. INTERLOCK TO CO/ NO SENSORS AND ASSOCIATED MOTORIZED DAMPERS.

INDOOR VRF FAN COIL UNIT SCHEDULE

TAG	SERVICE	NOMINAL COOLING CAPACITY (BTU/H)	NOMINAL HEATINGCAPACITY (BTU/H)	CFM	FRESH AIR CFM	ESP (IN. WC)	COOLING DATA			HEATING DATA		ELECTRICAL DATA				MANUFACTURER AND MODEL	NOTES
							EAT		LAT	EAT	LAT	VOLTAGE	PHASE	MCA (AMPS)	MOP (AMPS)		
							DB (°F)	WB (°F)	DB (°F)	DB (°F)	DB (°F)						
OAC-LL-1	CELLAR OA	30,933	25,900	450	450	0.6	90	74	55	10	65	208	1	3.3	15	TRANE TPEFYO36OA14	1,2,3,4,5
AC-G-1	MAIN GARAGE LOCKER RMS	36,000	40,000	1271	1200	0.6	80	74	55	60	85	208	1	4.25	15	TRANE TPEFYP036MA144A	1,2,3,4,5
AC-LL-1	BCI 119	15,000	17,000	353	–	–	75	67	55	75	85	208	1	0.24	15	TRANE TPKFYP015LM140A	3,4
AC-LL-2	BCI CLERICAL 103	15,000	17,000	353	–	–	75	67	55	75	85	208	1	0.24	15	TRANE TPKFYP015LM140A	3,4
AC-LL-3	MECH RM 114	30,000	34,000	875	75	0.6	80	74	55	65	85	280	1	4.13	15	TRANE TPVFYP030AM141A	1,2,3,4,5
AC-LL-4	BREAK RM 115	12,000	13,500	297	–	–	75	67	55	75	85	208	1	0.24	15	TRANE TPKFYP012LM140A	3,4
AC-LL-5	MECH RM 114	12,000	13,500	400	375	0.6	80	74	55	60	85	208	1	3.0	15	TRANE TPVFYP012AM141A	1,2,3,4,5
AC-IT-1	IT RM	12,000	13,500	297	–	–	75	67	55	75	85	208	1	0.24	15	TRANE TPKFYP012LM140A	3,4
AC-IT-2	IT RM	12,000	13,500	297	–	–	75	67	55	75	85	208	1	0.24	15	TRANE TPKFYP012LM140A	3,4

NOTES:
PROVIDE THE FOLLOWING FOR ALL UNITS U.O.N.:
1. DRAIN PAN WITH LEAK DETECTOR.
2. VIBRATION ISOLATORS AS RECOMMENDED BY MANUFACTURER.
3. DISCONNECT SWITCH.
4. PROGRAMMABLE THERMOSTAT MITSUBISHI MODEL PAR-CT01MAU-SB.
5. MIXING BOX AND FILTERS.
6. CENTRAL REMOTE CONTROLLER FOR MODBUS/ BACNET CONNECTION CAPABILITIES MITSUBISHI MODEL PAR-40MAAU.

OUTDOOR VRF HEAT PUMP SCHEDULE (BASIS OF DESIGN: TRANE/MITSUBISHI, U.O.N.)

TAG	LOCATION	SERVICE	NOMINAL HEATING CAPACITY (BTU/H)	NOMINAL COOLING CAPACITY (BTU/H)	COP	IEER	EER	ESP (IN. WC)	ELECTRICAL DATA				WEIGHT	MODEL NO.	NOTES
									VOLTAGE	PHASE	FLA (AMPS)	MOP (AMPS)			
CU-1	SEE PLANS	LOWER LEVEL AC UNITS	108,000	96,000	4.04	26.7	14.1	–	208	3	45	45	622	TUHYE0963AN40AN	1,2,3,4
CU-2	SEE PLANS	OAC-LL-1	80,000	72,000	4.05	25.3	13.5	–	208	3	23	35	512	TUHYE0723AN40AN	1,2,3,4
CU-G-1	SEE PLANS	AC-G-1	41,000	36,000	2.3	—	12	–	208	1	30	40	271	NTXMS36A142BA	1,3,4,5
CU4	SEE PLANS	IT ROOM	41,000	36,000	2.3	—	12	–	208	1	30	40	271	NTXMS36A142BA	1,3,4,6

NOTES:
PROVIDE THE FOLLOWING FOR THE UNITS:
1. DISCONNECT SWITCH.
2. 4 INCHES HIGH CONCRETE PAD.
3. INTERLOCKS TO ASSOCIATED AC UNITS.
4. DISCHARGE SNOW HOODS AND/ OR SNOW/ HAIL GUARDS AS APPLICABLE.
5. MOUNTING STAND.
6. PROVIDE WALL BRACKET TO MOUNT UNIT.

PUMP SCHEDULE

TAG	SERVICE	FLUID	PERFORMANCE DATA			MOTOR DATA		CONSTRUCTION DATA				ELECTRICAL DATA		MANUFACTURER AND MODEL	NOTES
			GPM	TDH(FT.)	RPM	MHP	STARTER	TYPE	SUCT/DISCH SIZES (IN.)	MAX TEMP. (°F)	WEIGHT (LBS)	VOLTAGE	PHASE		
P-1	MECHANICAL HEATING	HOT WATER	130	45	3452	2	VFD	INLINE	2	230	104	208	3	GRUNDFOSS DOL-75-MS-35-2VF D-15-1	1-6
P-2	MECHANICAL HEATING	HOT WATER	130	45	3452	2	VFD	INLINE	2	231	72	209	3	GRUNDFOSS DOL-75-MS-35-2VF D-15-1	1-6

NOTES:

1. PROVIDE CAST IRON PUMP BODY
2. PROVIDE STAINLESS STEEL IMPELLER
3. PROVIDE STAINLESS STEEL SHAFT
4. PROVIDE CLASS F MOTOR INSULATION
5. FURNISH EACH PUMP WITH FUNCTIONAL DEVICES RELAY MODEL #RIB2401D*
6. PROVIDE CONCRETE PAD FOR VIBRATION ISOLATION.

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ISSUE NO.	ISSUE DATE	DESCRIPTION
ISSUE NO.5	09/03/2024	ISSUED FOR BID
ISSUE NO.4	07/10/2024	UPDATED 100% CONSTRUCTION DOCUMENT SUBMISSION
ISSUE NO.3	06/06/2024	100% CD SUBMISSION
ISSUE NO.2	03/29/2024	90% CD SUBMISSION
ISSUE NO.1	12/14/2023	60% SUBMISSION

CAPITAL PROJECT #1521

SHERIFF'S OPERATIONS BUILDING

23 NEW HEMPSTEAD RD
NEW CITY, NY 10956

MECHANICAL SCHEDULES II

PROJECT NO.: 25097 | SCALE: AS NOTED

DRAWING NO.:

M501.00

one inch = one foot 2 0
three quarters inch = one foot 6" 0
one half inch = one foot 4 0
three eighths inch = one foot 4 0
one quarter inch = one foot 8 4 0
one eighth inch = one foot 16 8 4 0