

TECHNICAL EXHIBIT 29

HEATING, VENTILATION AND AIR CONDITIONING EQUIPMENT
(INCLUDES MECHANICAL AND HYDRAULIC EQUIPMENT)

ELECTRIC HEATERS

<u>BLDG.</u>	<u>QUANTITY</u>	<u>BRAND</u>	<u>KW</u>
1	1	UNKNOWN	5.0
3	1	UNKNOWN	5.0
4	2	MODEL V-42	
7	1	EMERSON CHROMALOX	7.5
8	1	ARVIN HEATER	12.5
9	2	WIEGAND CHROMALOX	4.0 ea
9	1	SINGER	5.0
11	1	BURNHAM HOT WATER RADIATOR	1.5
12	2	WIEGAND	7.5ea
12	5	WIEGAND	7.5 ea
22	1	FEDERAL PACIFIC BASEBOARD HEATER	1.5
22	2	FASCO	1.5 ea
22	7	CHROMALOX, RAYWALL, QMART	5.0 ea
32	1	RADIANT CEILING PANEL	0.75
32	1	RADIANT CEILING PANEL	0.40
38	11	INFRARED HEATER, CHROMALOX	1.0 ea
43			
44			
107	2	SINGER MARVEL	5.0 ea
110	4	WIEGAND	5.0 ea
120	2	CHROMALOX	8.0 ea
120	3	CHROMALOX	4.0 ea
128	3	DAYTON	5.0 ea
139	3		
151	3	CHROMALOX	5.0 ea
153	1	CHROMALOX	5.0 ea
154	1	WIEGAND	5.0 ea
155	5	CHROMALOX	5.0 ea
160	2	CHROMALOX	6.0 ea
203			
204			
216	4	TPI CORP	5.0 ea
220	13	TPI CORP	5.0 ea
225	4	TPI CORP	5.0
232	1	BURNHAM HOT WATER RADIATOR	1.5
233	1	BURNHAM HOT WATER RADIATOR	1.5
234	1	BURNHAM HOT WATER RADIATOR	1.5
245	4	TPI CORP	5.0 ea
249	4	FOSTORIA SUN MITE	5.0 ea
249	13	TPI CORP	5.0 ea
254	4	TPI CORP	5.0 ea
261	1	QMART	5.0
269	1	BURNHAM	1.5
271	2	WIEGAND	7.5 ea
271	2	WIEGAND	5.0 ea
273	5	WIEGAND	5.0 ea
277	1	QMART	5.0

Attachment 1

List is approximate. Contractor shall create and maintain an updated and accurate list of the technical exhibits equipment and materials and submit the list to DPW monthly.

TECHNICAL EXHIBIT 29

HEATING, VENTILATION AND AIR CONDITIONING EQUIPMENT
(INCLUDES MECHANICAL AND HYDRAULIC EQUIPMENT)

ELECTRIC HEATERS (Continued)

<u>BLDG.</u>	<u>QUANTITY</u>	<u>BRAND</u>	<u>KW</u>
286	4	TPI CORP	5.0 ea
290	13	TPI CORP	5.0 ea
290	4	FOSTORIA SUN MITE	5.0 ea
295	4	TPI CORP	5.0 ea
302	1	DUCT HEATER	5.0
305	2	CHROMALOX	6.0 ea
306	2	CHROMALOX	6.0 ea
1062	1	ARVIN HEATER	12.5
1067	1	ARVIN HEATER	12.5
1061	1	ARVIN HEATER	12.5
308	1	FASCO	9.0

GAS HEATING EQUIPMENT

Bldg	TYPE	MANUFACTURER	QTY	SIZE
15	Hot Water heater	State	1	80 gals
15	DUCT FURNACE	STERLING	1	200,000 BTUH
15	DUCT FURNACE	STERLING	1	320,000 BTUH
35	Infrared Heaters	American	6	24,000 btu ea.
36	Infrared Heaters	Raytec	6	24,000 btu ea.

HEATING AND AIR CONDITIONING EQUIPMENT

BLDG. NO. 1 (UNIT #1)
 TYPE OF UNIT: SPLIT/HEAT PUMP
 MFG: YORK
 MODEL: E1FB120A25A
 SN: NBBM011854
 POWER SUPPLY: 208/230 VAC PH1
 CAPACITY: COOLING: 10 TONS
 HEATING: HTR KW 27.0/36.0

BLDG. NO.1(UNIT #2)
 TYPE OF UNIT: SPLIT/HEAT PUMP
 MFG: YORK
 MODEL: E1FB090A25A
 SN: NLAM159574
 POWER SUPPLY: 208/230 VAC PH3
 CAPACITY: COOLING 7 TONS
 HEATING: HTR KW 27.0/36.0

Attachment 1

List is approximate. Contractor shall create and maintain an updated and accurate list of the technical exhibits equipment and materials and submit the list to DPW monthly.

TECHNICAL EXHIBIT 29

HEATING, VENTILATION AND AIR CONDITIONING EQUIPMENT
(INCLUDES MECHANICAL AND HYDRAULIC EQUIPMENT)

BLDG. NO. 1
INDOOR AIR HANDLER
MFG: YORK
MDL: 2H504503625A208/230
SN: NNAY 127544

BLDG. NO. 1
INDOOR AIR HANDLER
MFG: YORK
MDL: 2H504503626A 208/230 PH3
SN: NNAY 127556

BLDG. NO. 3 (UNIT#1)
TYPE OF UNIT: SPLIT/A/C ONLY
MFG: TRANE
MODEL: TTA072C300A0
SN: T27237925
POWER SUPPLY: 208/230 VAC
CAPACITY: COOLING 6 TON

BLDG. NO. 3 (UNIT#2)
TYPE OF UNIT: SPLIT/A/C ONLY
MFG: TRANE
MODEL: TTA072C300A0
SN: J27237946
POWER SUPPLY: 208/230 VAC
CAPACITY: COOLING 6 TON

BLDG. NO. 3
INDOOR AIR HANDLER
MFG: TRANE
MDL: TWE 090A300B
SN: J36171251

BLDG. NO. 3
INDOOR AIR HANDLER
MFG: TRANE
MDL: TWE090A300B
SN: J49173235

BLDG. NO. 3
HEAT EXCHANGER, 1000,000 BTUH (2 EA.)
UNIT HEATER. 10,300 BTUH (1 EA.)

Attachment 1

List is approximate. Contractor shall create and maintain an updated and accurate list of the technical exhibits equipment and materials and submit the list to DPW monthly.

TECHNICAL EXHIBIT 29

HEATING, VENTILATION AND AIR CONDITIONING EQUIPMENT
(INCLUDES MECHANICAL AND HYDRAULIC EQUIPMENT)

BLDG. NO. 4
TYPE OF UNIT: STEAM
MFG: ALDRICH CO.
MDL:
SN: 554326
FIRING RATE:
HEATING SURFACE-SQ FT:
GROSS OUTPUT BTUH: 264,000 (15 PSI)

BLDG NO. 4
TYPE OF UNIT
MFG: AIRTHERM HEATERS (6 EA)
MDL: HR-55A
GROSS OUTPUT BTUH: 31,500

BLDG. NO. 4
TYPE OF UNIT: HORIZONTAL HEATER(4 EA)

BLDG. NO. 4
TYPE OF UNIT. HORIZONTAL HEATER(3 EA)
MDL: V-42
GROSS OUTPUT BTH:
TYPE OF UNIT: SLOPED TOP FIN RADIATOR
MDL: s (2 EA)

BLDG. NO. 4
TYPE OF UNIT HYDRONIC
MFG. BURNHAM CORP
MDL: V-37
SN:7575896
FIRING RATE: 3.15
HEATING SURFACE-SQ FT.
GROSS OUTPUT BTUH: 297,400

BLDG. NO. 4
TYPE OF UNIT: HEAT EXCHANGER
MFG:
MDL:
SN:
FIRING RATE:
HEATING SURFACE-SQ FT:
GROSS OUTPUT BTUH: 82,000

BLDG. NO. 4
TYPE OF UNIT: HORIZONTAL HEATER
(5 EA.)
MDL: HS-47
GROSS OUTPUT BTUH:

Attachment 1

List is approximate. Contractor shall create and maintain an updated and accurate list of the technical exhibits equipment and materials and submit the list to DPW monthly.

TECHNICAL EXHIBIT 29

HEATING, VENTILATION AND AIR CONDITIONING EQUIPMENT
(INCLUDES MECHANICAL AND HYDRAULIC EQUIPMENT)

BLDG. NO. 4
TYPE OF UNIT: SLOPE TOP FIN
RADIATOR (2 EA)

BLDG. NO. 4
INDOOR AIR HANDLER
MFG: TRANE
MDL: BACA-B756-C
SN: S82Y-17289

BLDG. NO. 4 (FACILITY ENGINEER)
TYPE OF UNIT: SPLIT/A/C/ONLY
MFG: TRANE
MODEL: RAUC-B756-A
SN: C82J-062324
POWER SUPPLY: 208/230 PH3
CAPACITY: COOLING: 6 TONS

BLDG. NO. 5
INDOOR AIR HANDLER
MFG: TRANE
MDL: BWE090C
SN: C28177859 208/230 VAC PH1

BLDG. NO. 5 (EQUIP/ADM)
TYPE OF UNIT: SPLIT/HEAT PUMP
MFG: TRANE
MODEL: BWA090C300MC
SN: C29190169
POWER SUPPLY: 208/230 VAC PH3
CAPACITY COOLING: 7 TONS
HEATING: HTR KW 12.84/17

BLDG. NO. 6 (BREAK ROOM*AND OFFICE*)
TYPE OF UNIT: COOLING ONLY
MFG: TRANE
MODEL: AIR HANDLER TWE060A
CONDENSING UNIT TWA060C-A
CAPACITY: 5 TON

BLDG. NO. 6
TYPE OF UNIT HOT WATER BOILER
MFG: WEIL-MCLAIN
MODEL: P-478
GROSS OUTPUT: 400 MBH
C-525-G D/B HEATER 126,000
BTH/H (4 EA)
RADIATOR: 5,400 BTU/H

Attachment 1

List is approximate. Contractor shall create and maintain an updated and accurate list of the technical exhibits equipment and materials and submit the list to DPW monthly.

TECHNICAL EXHIBIT 29

HEATING, VENTILATION AND AIR CONDITIONING EQUIPMENT
(INCLUDES MECHANICAL AND HYDRAULIC EQUIPMENT)

RADIATOR: 5,300 BTU/H
RADIATOR: 2,600 BTU/H

BLDG. NO. 7 (PARTS ROOM)
TYPE OF UNIT: DX (WINDOW UNIT)
MFG: FEEDERS
MODEL: A2015E7A
SN: B297485
POWER SUPPLY: 208/230 VAC
CAPACITY: COOLING: 17500/1800 BTU'
(1 ½ TONS)

BLDG. NO. 11
TYPE OF UNIT: DX
MFG: WHIRLPOOL
MODEL: A2Q07E1A60
SN: EF5825-1264
POWER SUPPLY: 115 VAC PH1
CAPACITY :COOLING:7000 BTU'S
(0.75 TON)

BLDG. NO. 12
FAN COIL UNIT (33 Each)
MFG: AIRTHERM
MODEL: VERTICAL SERIES
3 ROWS CHILLED WATER
1 ROW RAW HOT WATER
CENTRIFUGAL FANS

BLDG. NO. 12
TYPE OF UNIT: PACKAGE/A/C ONLY
MFG: CARRIER
MODEL: 30GT045
CAPAICTY:COOLING: 41.6 TONS
HEATING: SEPARATE HEATING UNIT

BLDG. NO. 12
TYPE OF UNIT: CHILLER FOR COOLING
MFG: CARRIER
MODEL: XQA123D
CAPACITY: 11,600 BTU COOLING
7,600 BTU HEATING

Attachment 1

List is approximate. Contractor shall create and maintain an updated and accurate list of the technical exhibits equipment and materials and submit the list to DPW monthly.

TECHNICAL EXHIBIT 29

HEATING, VENTILATION AND AIR CONDITIONING EQUIPMENT
(INCLUDES MECHANICAL AND HYDRAULIC EQUIPMENT)

BLDG. NO. 12
HOT WATER HEATER (BOILER)
MFG: RECO
MODEL: R25-871-FO
300 GPH AT 100 DEG F

BLDG. NO. 12
TYPE OF UNIT: HOT WATER BOILER (2 EA)
MFG: WEIL MCLAIN
MDL: BL-478-WF
GROSS OUTPUT BTUH: 400 MBH

BLDG. NO. 14
H-500 G D/B HEATER *DELETED
HB-24 STERLING DELETED
ILG HEATER DELETED
RADIATOR DELETED
RADIATOR DELETED

BLDG. NO. 14
TYPE OF UNIT: *HYDRONIC*
MFG: WEIL-MCCLAIN
MDL: D890S HEAT-PAK15PSI
SN: 82-5667
FIRING RATE: 7.5
HEATING SURFACE-SQ FT: 129
GROSS OUTPUT BTUH: 792,000
BLDG. NO. 14 (LOCOMOTIVE MAINT)
TYPE OF UNIT:*HEAT PUMP/WINDOW UNIT*
(3 EACH)
MFG: TRANE
MODEL: DELETED
SN: DELETED
POWER SUPPLY: DELETED
CAPACITY COOLING: 17800/1800 BTU'S
(1 ½ TONS)

BLDG. NO. 15 (UNIT#2)
TYPE OF UNIT: SPLIT/A/C ONLY
MFG: CARRIER
MODEL: 38C018310
SN: 1793E09333
POWER SUPPLY: 208/230 VAC PH1
CAPACITY: COOLING:2 ½ TONS
HEATING:UNIT IS SEPARATE

BLDG. NO. 15

Attachment 1

List is approximate. Contractor shall create and maintain an updated and accurate list of the technical exhibits equipment and materials and submit the list to DPW monthly.

TECHNICAL EXHIBIT 29

HEATING, VENTILATION AND AIR CONDITIONING EQUIPMENT
(INCLUDES MECHANICAL AND HYDRAULIC EQUIPMENT)

INDOOR AIR HANDLER
MFG: CARRIER
MDL: 40RR-024-020
SN: 0793F34036

BLDG. NO. 15 (UNIT #1)
TYPE OF UNIT: SPLIT/A/C ONLY
MFG: CARRIER
MODEL: 38AK-024-500
SN: 1293F40560
POWER SUPPLY: 208/230 VAC PH3
CAPACITY COOLING: 24 TONS
HEATING: HEATING IS BY
SEPARATE GAS UNIT.

*BLDG. NO. 16 DELETED

BLDG. NO. 17A
TYPE OF UNIT: HEAT PUMP
MFG: DELETED
MDL: A3429
SN: COB-600-T-2-13126
FIRING RATE: 1.0
HEATING SURFACE-SQ FT
GROSS OUTPUT BTUH: 101,295

BLDG. NO. 17 (FD)
TYPE OF UNIT: HEAT PUMP
MFG: DELETED
MDL: D450S HEAT-PAK15PSI
SN: 86-8773
FIRING RATE : 4.0
HEATING SURFACE-SQ FT: 65
GROSS OUTPUT BTUH: 396,000

BLDG. NO. 17A
TYPE OF UNIT: AIR HANDLER
MFG: YORK
MDL: F3EH090A33A
SN: NKES007716

Attachment 1

List is approximate. Contractor shall create and maintain an updated and accurate list of the technical exhibits equipment and materials and submit the list to DPW monthly.

TECHNICAL EXHIBIT 29

HEATING, VENTILATION AND AIR CONDITIONING EQUIPMENT
(INCLUDES MECHANICAL AND HYDRAULIC EQUIPMENT)

BLDG. NO. 17A (COM.CTR)
TYPE OF UNIT: AIR HANDLER
MFG: YORK
MODEL: F3EH120A33D
SN: NKES007275

BLDG. NO. 17A
TYPE OF UNIT: HEAT PUMP
MFG: :YORK
MODEL: EIFB098A25TCB
SN: NLEM130046
POWER SUPPLY: 208/230 VAC PH3
CAPACITY COOLING: 7.5 TONS HEAT 7 COOL

BLDG. NO. 17A
TYPE OF UNIT: HEAT PUMP
MFG: YORK
MODEL: EIFB120
SN: NLEM126264
POWER SUPPLY: 208/230 VAC PH3
CAPACITY COOLING: (12 TONS)

BLDG. NO. 17A
TYPE OF UNIT: HEAT PUMP PKG UNIT(ROOF)
MFG: YORK
MODEL: EIFB098A25TCB
SN: NLEM 1300
POWER SUPPLY: 208/230 VAC PH3
CAPACITY: 7.5 TONS

BLDG. NO. 17B (FIRE DEPT)
TYPE OF UNIT: SPLIT/A/C ONLY
MFG: TRANE
MODEL: BTA060D300A0
SN: Y31257465
POWER SUPPLY: 200/230 PH3
CAPACITY COOLING: 60,000 BTU'S(5 TONS)
HEATING: SEPARATE HEATING UNIT

BLDG. NO. 17B
INDOOR AIR HANDLER
MFG: TRANE
MDL: BWE 090C100D0
SN: X40175412 200/230 VAC
CFM: 3375

Attachment 1

List is approximate. Contractor shall create and maintain an updated and accurate list of the technical exhibits equipment and materials and submit the list to DPW monthly.

TECHNICAL EXHIBIT 29

HEATING, VENTILATION AND AIR CONDITIONING EQUIPMENT
(INCLUDES MECHANICAL AND HYDRAULIC EQUIPMENT)

BLDG. NO. 18
INDOOR AIR HANDLER
MFG: RUUD
MDL: UBHA-24C15SUB7
SN: 208/240 VACPH1

BLDG. NO. 18 FIRE DEPT #2
TYPE OF UNIT: SPLIT/HEAT PUMP
MFG: RUUD
MODEL: UPKA-060-CA5
SN: 4990-N5093-3189
POWER SUPPLY: 208/230 PH1
CAPACITY: COOLING: 60,000 BTU'S(5 TONS)
HEATING: AUX HEAT 10.8/14.4 KW

BLDG. NO. 21 MAIN GATE
TYPE OF UNIT: DX/HEAT PUMP
MFG: WHIRLPOOL
MODEL: ACR124XR2
SN: AQ1637438
POWER SUPPLY: 208/230 VAC PH1
CAPACITY COOLING: 11800/1200 BTU'S(4 TON)
HEATING: 10200/10500 BTU'S

BLDG. NO. 22 SUPPLY DIV
TYPE OF UNIT: PKG/HEAT PUMP
MFG: TRANE
MODEL: SPH0502C
SN: C83J04842
POWER SUPPLY: 208/230 VAC PH1
CAPACITY: COOLING: 5 TONS
HEATING: HTR KW 17.3

BLDG. NO. 24 COD
INDOOR AIR HANDLER
MFG.: TRANE(GE)
MDL: BWE060C400DO 200/230 VACPH3

BLDG. NO. 24
INDOOR AIR HANDLER
MFG: TRANE(GE)
MDG: BWE060C400D208/230 VACPH3
SN: 339739905

Attachment 1

List is approximate. Contractor shall create and maintain an updated and accurate list of the technical exhibits equipment and materials and submit the list to DPW monthly.

TECHNICAL EXHIBIT 29

HEATING, VENTILATION AND AIR CONDITIONING EQUIPMENT
(INCLUDES MECHANICAL AND HYDRAULIC EQUIPMENT)

BLDG. NO. 24
INDOOR AIR HANDLER
MFG: TRANE
MDL: BWE924GA00DO 200/230 VAC
PH1
SN: 370206812

BLDG. NO. 24
INDOOR AIR HANDLER
MFG: TRANE (GE)
MDL: BWE 060C400D0
SN: 33973596

BLDG. NO. 24 COD – HEAT PUMP #1
TYPE OF UNIT SPLIT/HEAT PUMP
MFG: TRANE(GE)
MODEL: BWRD48A300A4
SN: 226548902
POWER SUPPLY: 208/230 VACPH3
CAPACITY COOLING: 48,000 BTU'S (4 TONS)
HEATING: HTR KW 12.84/17.1

BLDG. NO. 24 HEAT PUMP #2
TYPE OF UNIT: SPLIT/HEAT PUMP
MFG: TRANE (GE)
MODEL: BWR060A300A4
SN: 270780912
POWER SUPPLY: 208/230 BTU'S(5 TONS)
CAPACITY COOLING: 60,000 BTU'S (5 TONS)
HEATING HTR KW 12.84/17.10

BLDG. NO. 24 HEAT PUMP #3
TYPE OF UNIT: SPLIT/HEAT PUMP
MFG: TRANE
MODEL: TWR024C10040

SN: H11260967
POWER SUPPLY: 200/230 VAC PH1
CAPACITY COOLING: 24,000 BTU(2 TON)
HEATING: HTR KW 13.0/16.0

BLDG. NO. 24 HEAT PUMP #4
TYPE OF UNIT: SPLIT/HEAT PUMP
MFG: TRANE
MODEL: TWA060C300A1
SN: J03218111
POWER SUPPLY: 200/230 VAC PH3
CAPACITY COOLING: 60,000 (5 TONS)

BLDG. NO. 26 ADMIN.

Attachment 1

List is approximate. Contractor shall create and maintain an updated and accurate list of the technical exhibits equipment and materials and submit the list to DPW monthly.

TECHNICAL EXHIBIT 29

HEATING, VENTILATION AND AIR CONDITIONING EQUIPMENT
(INCLUDES MECHANICAL AND HYDRAULIC EQUIPMENT)

TYPE OF UNIT: PACKAGE IA/C ONLY

MFG: TRANE

MODEL: SAHDC3060B10C445D3B00 HB

SN: J83A70111

POWER SUPPLY: 180/220 VAC PH3

CAPACITY: COOLING, 30 TONS

HEATING: SEPERATE HEATING UNIT

BLDG. NO. 26 WIN SITE

TYPE OF UNIT : UNITARY

MFG: HIROSS

MODEL: 003A06FPAA00

SN: 28314

POWER SUPPLY: 220/230PH1

CAPACITY: 000LING: 3 TONS

HEATING: HTR KW 5.0

BLDG. NO. 26

OUTSIDE CONDENSER UNIT

MFG : HIROSS

MDL: A000660204/230 VAC

SN: 28315

BLDG. NO. 26

TYPE OF UNIT: HYDRONIC

MFG: BURNHAM CORP

MDL: V-38

SN: 7565119

FIRING RATE: 3:65

HEATING SURFACE-SQ.FT:

GROSS OUTPUT BTUH: 346,100

BLDG. NO. 26

1-34,600 BTUH 6-18,900 BTUH

2-30,200 BTUH 7-43,900 BTUH

3-30,200 BTUH 8-34,600 BTUH

4-31,000 BTUH 9-18,900 BTUH

5-60,500 BTUH 10-25,900 BTUH

5A-20,000 BTUH

7A-20,000 BTUH

BLDG. NO. 31

A/T HEATER VR-80A@56,000BTUH (5 EA.)

A/T HEATER VR-20A@4,200 BTUH (1 EA.)

WALL MTD RADIATOR@2,30 BTUH(2 EA.)

HEAT EXCHANG. (PAINT BOOTH

@57,220 BTUH

Attachment 1

List is approximate. Contractor shall create and maintain an updated and accurate list of the technical exhibits equipment and materials and submit the list to DPW monthly.

TECHNICAL EXHIBIT 29

HEATING, VENTILATION AND AIR CONDITIONING EQUIPMENT
(INCLUDES MECHANICAL AND HYDRAULIC EQUIPMENT)

BLDG. NO 31
TYPE OF UNIT: HYDRONIC
MFG: BURNHAM CORP
MDL: PF-506
SN: 7570519
FIRING RATE: 8.00
HEATING SURFACE-SQ FT: 104
GROSS OUTPUT BTUH: 950,000

BLDG. NO. 32 PROVOST MARSHALL
TYPE OF UNIT: HEAT PUMP
MFG. *TRANE/NEW UNIT*
MODEL: UPNC-058C
SN: 133859F19872671
POWER SUPPLY: 208/240 VAC PH3
CAPACITY: COOLING: 58.000 (5 TONS)
HEATING.HTR KW 4 STRIPS
@ 8.4,11.4,14.4,19.2.
2 STRIPS @ 9.6 KW EACH @ 240 V

BLDG. NO. 32 SECURITY
TYPE OF UNIT: PACKAGE/HEAT PUMP
MFG. *TRANE/NEW UNIT*
MODEL-UPNC-058C
SN: B3859F22874186
POWER SUPPLY: 208/240 VACPH3
CAPACITY: COOLING.-58.000 (5 TONS)
HEATING.HTR KW 4 STRIPS
@ 8.4, 11.4, 14.4,19.2 KW
2STRIPS @9.6KWEACH @240V

BLDG. NO. 34 VISITOR'S CONTROL CENTER
TYPE OF UNIT: PACKAGE/HEAT PUMP
MFG: *NEW UNIT*
MODEL. 5000024340
SN:0287031519
POWER SUPPLY: 208/230 PHI
CAPACITY: COOLING.2 TONS
HEATING.HTR KW 7.5/10.0

Attachment 1

List is approximate. Contractor shall create and maintain an updated and accurate list of the technical exhibits equipment and materials and submit the list to DPW monthly.

TECHNICAL EXHIBIT 29

HEATING, VENTILATION AND AIR CONDITIONING EQUIPMENT
(INCLUDES MECHANICAL AND HYDRAULIC EQUIPMENT)

BLDG. 35 R/W GARAGE
TYPE OF UNIT: DX/HEAT PUMP
MFG.KENMORE
MODEL: 2538765101
SN: 107043081
POWER SUPPLY: 208/230 VACPH1
CAPACITY: COOLING: 10,100/10300 BTU'S
HEATING. 8,400/9100 BTU'S

BLDN NO. 43
TYPE OF UNIT: HOT WATER HEATERS (6).
TYPE OF UNIT: HEATING VENTILATION UNIT (1)
TYPE OF UNIT: RECIRCULATION AIR UNIT (1)
TYPE OF UNIT: EXHAUST FANS (17)
TYPE OF UNIT: EXPANSION TANK (1)
TYPE OF UNIT: HOT WATER PUMP (1)
TYPE OF UNIT: HOT WATER BOILER (1)
TYPE OF UNIT: HEAT PUMPS, THRU WALL UNITS (2)
TYPE OF UNIT: AIR COMPRESSOR (1)
TYPE OF UNIT: SUMP PUMP (1)
TYPE OF UNIT: WATER HEATER (1)

BLDN NO. 44 (UNDER CONSTRUCTION)
TYPE OF UNIT: SPLIT SYSTEM
MFG: MITSUBISHI ELECTRIC
MDL: MS09TW – INDOOR UNIT
MU09TW – OUTDOOR UNIT
COOLING CAPACITY: 8.5 MBH
AMPERAGE: 15
VOLTAGE: 115/1/60
WARRANTY: 6 YEAR – COMPRESSOR
1 YEAR – PARTS

BLDN NO. 44 (UNDER CONSTRUCTION)
TYPE OF UNIT: UNIT HEATER (1)
MFG: RAYWALL HEATERS
MDL: H2FB5107CA1L
VOLTAGE: 208
AMPERAGE: 27.1
BTU: 25,600

BLDN NO. 44 (UNDER CONSTRUCTION)
TYPE OF UNIT: UNIT HEATER (2)
MFG: RAYWALL HEATERS
MDL: F2F5107CA1L
VOLTAGE: 208
AMPERAGE: 20.8
BTU: 25,600

BLDN NO. 44 (UNDER CONSTRUCTION)

Attachment 1

List is approximate. Contractor shall create and maintain an updated and accurate list of the technical exhibits equipment and materials and submit the list to DPW monthly.

TECHNICAL EXHIBIT 29

HEATING, VENTILATION AND AIR CONDITIONING EQUIPMENT
(INCLUDES MECHANICAL AND HYDRAULIC EQUIPMENT)

TYPE OF UNIT: UNIT HEATER – INFRARED RADIANT (4)
MFG: RAYWALL HEATERS
MDL: CH-1320-3A
VOLTAGE: 208
AMPERAGE: 37.5
BTU: 46,076

BLDN NO. 44 (UNDER CONSTRUCTION)
TYPE OF UNIT: UNIT HEATER – INFRARED RADIANT (2)
MFG: RAYWALL HEATERS
MDL: CH-620-3A
VOLTAGE: 208
AMPERAGE: 14.5
BTU: 20,478

BLDN NO. 44 (UNDER CONSTRUCTION)
TYPE OF UNIT: HEAT PUMPS (4)
MFG: YORK
MDL: E4FD060S25A (3)
E4FDO48S25 (1)
VOLTAGE: 208-230

BLDN NO. 44 (UNDER CONSTRUCTION)
TYPE OF UNIT: AIR HANDLERS (4)
MFG: YORK
MDL: F2F9060HO6B
HP: $\frac{3}{4}$
VOLTAGE: 208/230
PSIG 350

BLDN NO. 44 (UNDER CONSTRUCTION)
TYPE OF UNIT: EXHAUST FANS
(2)MDL: 36XMWH CFM: 12,200 HP: 2 VOLTS: 208/1
(3)MDL: GC-140 CFM: 109 POWER: 67 WATTS VOLTS: 115/1
(1)MDL: 114S10D CFM: 720 HP/WATTS: 1/6 VOLTS: 115/1
(1)MDL: 18S10D CFM: 1085 HP/WATTS: 1/3 VOLTS: 115/1
(1)MDL: GC-720 CFM: 390 POWER: 148 WATTS VOLTS: 115/1
(1)MDL: 20S10D CFM: 1510 HP/WATTS: 1/3 VOLTS: 115/1
(1)MDL: GN-520 CFM: 305 POWER: 134 WATTS VOLTS: 115/1
(1)MDL: GN-720 CFM: 415 POWER: 159 WATTS VOLTS: 115/1
(1)MDL: GC-180 CFM: 150 POWER: 114 WATTS VOLTS: 115/1
(1)MDL: 120W11D CFM: 705 HP/WATTS: $\frac{1}{4}$ VOLTS: 115/1

Attachment 1

List is approximate. Contractor shall create and maintain an updated and accurate list of the technical exhibits equipment and materials and submit the list to DPW monthly.

TECHNICAL EXHIBIT 29

HEATING, VENTILATION AND AIR CONDITIONING EQUIPMENT
(INCLUDES MECHANICAL AND HYDRAULIC EQUIPMENT)

BLDG. NO 98 POST 1A
TYPE OF UNIT: DX/HEAT PUMP
MFG. *GOLD PAINT*
MODEL: AJE09D3QI
SN: GR229868
POWER SUPPLY: 208/230 VAC PH1
CAPACITY: COOLING: 8500/8700 BTU'S
HEATING.HTR KW 14.4/15.7

BLDG. NO. 97 POST #2
TYPE OF UNIT: DX/HEAT PUMP
MFG. *WHIRLPOOL*
MODEL.AJE09D3QI
SN: GR229868
POWER SUPPLY: 208/230 VACPH1
CAPACITY: COOLING. 8500/8700 BTU'S
HEATING.HTR KW 14.4/15.7

BLDG. NO. 101 TRUCK INSP. STA.
TYPE OF UNIT: HEAT PUMP, SPLIT SYSTEM
MFG: *NEW UNIT*
MODEL:
POWER SUPPLY: 208/230PH3
CAPACITY: COOLING. (4 1/2 TONS)

BLDG. NO. 128 BREAK ROOM
@RECLAIM YARD
TYPE OF UNIT: DX (WINDOW)
MFG: KENMORE
MODEL. 106.9710533
POWER SUPPLY: 115 VAC
CAPACITY :5000 BTUHR

*BLDG. NO. 131
TYPE OF UNIT: HEAT PUMP
MFG:
MODEL: SN:
POWER SUPPLY:
CAPACITY: 2.5 TONS

BLDG. NO. 139 DELETED
BLDG NO. 150
TYPE OF UNIT: SPLIT SYSTEM HEAT PUMP

*BLDG. NO. 158 **DELETED**

BLDG NO 200
TYPE OF UNIT: WINDOW

Attachment 1

List is approximate. Contractor shall create and maintain an updated and accurate list of the technical exhibits equipment and materials and submit the list to DPW monthly.

TECHNICAL EXHIBIT 29

HEATING, VENTILATION AND AIR CONDITIONING EQUIPMENT
(INCLUDES MECHANICAL AND HYDRAULIC EQUIPMENT)

MFG. GE
CAPACITY: COOLING. **2.000 BTU**

*BLDG. NO. 220
TYPE OF UNIT: WINDOW
MFG: FRIGIDAIRE
MODEL: FAS226W2A3
SN: JK81849151 (FRON UNIT)
SN: JK81849209 (REAR UNIT)
POWER SUPPLY: CAPACITY:
CAPACITY:

*BLDG. NO. 249
TYPE OF UNIT: WINDOW
MFG: FRIGIDAIRE
MODEL: FAS226W2A3
SN: JK81849207 (FRONT UNIT)
SN: JK81849152 (REAR UNIT)
POWER SUPPLY:
CAPACITY:

*BLDG. NO. 279
TYPE OF UNIT: HEAT PUMP
MFG:
MODEL:
SN:
POWER SUPPLY:
CAPACITY: **2.5 TONS**

BLDG. NO. 281
TYPE OF UNIT: HEAT PUMP
MFG:
MODEL:
SN:
POWER SUPPLY:
CAPACITY: 2.5 TONS

*BLDG. NO. 282
TYPE OF UNIT: HEAT PUMP
MFG:
MODEL:
SN:
POWER SUPPLY:
CAPACITY: 2.5 TONS

BLDG. NO. 290
TYPE OF UNIT: WINDOW

Attachment 1

List is approximate. Contractor shall create and maintain an updated and accurate list of the technical exhibits equipment and materials and submit the list to DPW monthly.

TECHNICAL EXHIBIT 29

HEATING, VENTILATION AND AIR CONDITIONING EQUIPMENT
(INCLUDES MECHANICAL AND HYDRAULIC EQUIPMENT)

MFG: FRIGIDAIRE
MODEL: FAS226W2A3
SN: JK81849151 (FRONT UNIT)
SN: JK81849209 (REAR UNIT)
POWER SUPPLY:
CAPACITY:

BLDG. NO.401
TYPE OF UNIT: PACKAGEISPLIT/HEAT PUMP
MFG: YORK
MODEL: E 1 CS06OA06A
SN: MMTM 408064
POWER SUPPLY: 208/230 PH1
CAPACITY:000LING. 5 TONS (50.000 BTU'S)
BLDG NO 400
TYPE OF UNIT: WINDOW
MFG: GE
CAPACITY: COOLING: 2,000 BTU

BLDG. NO. 401
TYPE OF UNIT:
MFG: CARRIER
MODEL: S1DZA112301
SN: 237331
POWER SUPPLY: 208/230 VPH1
CAPACITY: COOLING: 11.000 BTUH

BLDG. NO.401
INDOOR AIR HANDLER:
MFG: YORK
MDL: N2AHD20AO6C
SN: EGYS130287
SCFM: HTR KW 22.5

BLDG. NO. 401
TYPE OF UNIT: DX/HEAT PUMP
MFG. HRB SINGER
MODEL. 85141B5
SN: 56133026C
POWER SUPPLY: 208 PH1
CAPACITY: COOLING: 1.5 TONS (18,000 BTU)
HEATING. KW 10.6

BLDG. NO. 403A
TYPE OF UNIT: DX
MFG. WHIRLPOOL
MODEL. ACM 102XX
SN: AC20D6633

Attachment 1

List is approximate. Contractor shall create and maintain an updated and accurate list of the technical exhibits equipment and materials and submit the list to DPW monthly.

TECHNICAL EXHIBIT 29

HEATING, VENTILATION AND AIR CONDITIONING EQUIPMENT
(INCLUDES MECHANICAL AND HYDRAULIC EQUIPMENT)

POWER SUPPLY: 115 V
CAPACITY: COOLING. 10,000 BTU

BLDG. NO. 403A
INDOOR AIR HANDLER
MFG: CARRIER
MDL: 28RC02400
SN: C663616

BLDG. NO. 403A
TYPE OF UNIT: SPLIT/A/C ONLY
MFG: RHEEM
MODEL: RACC-024JA5
SN: 3112M22391634
POWER SUPPLY: 208/230 V PH 1
CAPACITY: COOLING: 2 TONS (24.000 BTU)
BLDG. NO. 403A
TYPE OF UNIT: HEAT PUMP/SPLIT SYST.
MFG: RHEEM
MDL: RPMB-030JAZ
SN: 5982 M 3997 09137
HEATING SURFACE-SQ FT
GROSS OUTPUT BTUH: 2.5 TON

BLDG. NO 403B
TYPE OF UNIT: HEAT PUMP/SPLIT
SYSTEM
MFG: RHEEM
MDL: RPMB-030JAZ
FIRING RATE: 75
HEATING SURFACE-SQ FT
GROSS OUTPUT BTUH: 2.5 TON

BLDG. NO. 403B
INDOOR AIR HANDLER
MFG: CARRIER
MDL: 28RC02400
SN: U687949
SCFM: 1650

BLDG. NO. 403B
TYPE OF UNIT: SPLIT/A/C ONLY
MFG: COMFORTMAKER
MODEL: AC 24
SN:
POWER SUPPLY: 208/230 PH1
CAPACITY: COOLING: 2 TONS (24.000 BTU)

Attachment 1

List is approximate. Contractor shall create and maintain an updated and accurate list of the technical exhibits equipment and materials and submit the list to DPW monthly.

TECHNICAL EXHIBIT 29

HEATING, VENTILATION AND AIR CONDITIONING EQUIPMENT
(INCLUDES MECHANICAL AND HYDRAULIC EQUIPMENT)

BLDG. NO. 403B
TYPE OF UNIT: DX
MFG. WHIRLPOOL
MODEL: ACM 102XX
SN: AC12006615
POWER SUPPLY: 115 V
CAPACITY:000LING: 10.000 BTU

BLDG. NO. 404A
TYPE OF UNIT: SPLIT/A/C ONLY
MFG. COMFORTMAKER
MODEL. AC024
SN:
POWER SUPPLY 208/230 V PH1:
CAPACITY: COOLING: 2 TONS (24.000 BTU)

BLDG. NO. 404A
INDOOR AIR HANDLER
MFG.CARRIER
MDL:28RC02400
SN:2652127
SCFM:1650 CFM

BLDG. NO. 404A
TYPE OF UNIT: HEAT PUMP/SPLIT SYST.
MFG: RHEEM
MDL: RPMB-030JAZ
SN: 600 M 2697 11819
FIRING RATE: .75
HEATING SURFACE-SQ FT
GROSS OUTPUT BTUH: 2.5 TON

BLDG. NO. 404B
TYPE OF UNIT: HEAT PUMP/SPLIT
SYSTEM
MFG: RHEEM
MDL: RPMB-030JAZ
SN: 600 M 3097 06992
FIRING RATE: .75
HEATING SURFACE-SQ FT
GROSS OUTPUT BTUH: 2.5 TON

BLDG. NO. 404B
TYPE OF UNIT: SPLIT/A/C ONLY
MFG: RHEEM
MODEL: RACC-024JAS
SN: 4287M14883900
POWER SUPPLY: 208/230 PH1
CAPACITY:000LING: 2 TONS (24.000 BTU)

Attachment 1

List is approximate. Contractor shall create and maintain an updated and accurate list of the technical exhibits equipment and materials and submit the list to DPW monthly.

TECHNICAL EXHIBIT 29

HEATING, VENTILATION AND AIR CONDITIONING EQUIPMENT
(INCLUDES MECHANICAL AND HYDRAULIC EQUIPMENT)

BLDG. NO. 404B
INDOOR AIR HANDLER
MFG. CARRIER
MDL: 28RC024000
SN: Q663619
SCFM: 1650 CFM

LOCATION: FIRE BOAT
TYPE OF UNIT: DX (WINDOW)
MFG, FEDDERS
MODEL NO.: A3DI5E2A
POWER SUPPLY: 115 VAC
CAPACITY: 12000 BTU

AIR COMPRESSOR EQUIPMENT

<u>Bldg.</u>	<u>No.</u>	<u>Manufacturer</u>	<u>Quantity</u>	<u>HP</u>
	4	Curtis	1	1/2
	6	Quincyr	1	10
	7	Ingersoll rand	1	10
	9	Ingersoll rand	1	15
	14	Deuilkiss	1	5
	18	Bauer (1)	1	10
	44	Quincy Compressors	1	5
	308	Emgio (2)	1	7.5

- (1) Bauer compressor Purification system
Compressor model UMI-10E3, 10 HP
Purification system model No. P2W-SECIENUS
- (2) Includes ½ HP Norgren Air Dryer, Model D

<u>BLDG.NO.</u>	<u>MANUFACTURER</u>	<u>NO. UNITS</u>
1	Elkay	1
3	Halsey-Taylor	1
4	Elkay	1
4	General Electric	1
5	Halsey-Taylor	1
6	*Elkay*	1
9	Sunroc	1
12	to be installed	4
15	Elkay	2
18	Elkay	1
19	Sunroc	1
21	Unknown	
22	Elkay	1

Attachment 1

List is approximate. Contractor shall create and maintain an updated and accurate list of the technical exhibits equipment and materials and submit the list to DPW monthly.

TECHNICAL EXHIBIT 29

HEATING, VENTILATION AND AIR CONDITIONING EQUIPMENT
(INCLUDES MECHANICAL AND HYDRAULIC EQUIPMENT)

22	General Electric	1
24	Hasley Taylor	1
25	Hasley Taylor	1
17	Sunroc	2
26	Elkay	1
31	Elkay	1
32	Elkay	1
34	Elkay	1
35	Elkay	1
97	Unknown	1
98	Unknown	1
101	to be installed	2
107	Sunroc	1
120	Elkay	1
131	Unknown	1
160	Elkay	1
159	Elkay	1
220	Elkay	2
249	Sunroc	1
261	Oasis	1
271	Sunroc	1
273	General Electric	1
277 ~	Sunroc	1
279	Unknown	1
281	Unknown	1
282	Unknown	1
290	Elkay	2
305	Hasley Taylor	1
306	Oasis	1
308	Elkay	1
FireBoat	Elkay	1

REFRIGERATION EQUIPMENT (EXCLUDING REFRIGERATORS)

<u>Equipment</u>	<u>Manufacturer</u>	<u>Location</u>	<u>Quantity</u>	<u>Capacity</u>
Ice Machine	*Manitowac`	Bldg.4	1	1 ton
Ice Machine	Scotman	*Bldg. 12*	1	1 ton
Ice Machine	*Manitowac`	Bldg. 6	1	1 ton
Ice Machine	Ross-Temp	Bldg. 32	1	1 ton
Ice Machine	Scotman	Bldg. 17FD	1.	4ton
Ice Machine	Manitowac	Bldg 14	1	250 lb

NOTE: Refrigerators (portable) are listed in TECHNICAL EXHIBIT 9

Attachment 1

List is approximate. Contractor shall create and maintain an updated and accurate list of the technical exhibits equipment and materials and submit the list to DPW monthly.

TECHNICAL EXHIBIT 29

HEATING, VENTILATION AND AIR CONDITIONING EQUIPMENT
(INCLUDES MECHANICAL AND HYDRAULIC EQUIPMENT)

HYDRAULIC EQUIPMENT:

<u>Equipment</u>	<u>Manufacturer Model No.</u>	<u>Location</u>	<u>Quantity</u>
Hydraulic barricade Systems	Delta 112075	Post 1	2
Hydraulic barricade Systems	Delta 110275	Post 1 A	2
Mechanical Dock Leveler	Kelley Dyna Load M6364	121	56

ELECTRIC WATER HEATERS

<u>BldgNo.</u>	<u>Manufacturer</u>	<u>Quantity</u>	<u>Gallons Capacity</u>
1	Mor Flo	1	42
3	Hoyt	1	40
4	American	1	15
4	Mor Flo	1	30
5	Hoyt	1	30
6	Mor Flo	1	30
12	Reco Elite	1	221
14	American	1	30
15	State	1	20
17	State	1	17
17	Hoyt	1	80
22	American Appliance	1	18
24	State	1	80
25	Rheem	1	30
31	American	1	19
32	State	1	82
34	Mor Flo	1	6
35	State	1	10
36	State	1	10
38	Bradford White	1	40
44	State Patriot	2	66
101	BEING INSTALLED	1	65
120	Thermal Glass	1	15
271	Mor Flo	1	6
308	Bradford-White	1	40

Attachment 1

List is approximate. Contractor shall create and maintain an updated and accurate list of the technical exhibits equipment and materials and submit the list to DPW monthly.

TECHNICAL EXHIBIT 29

HEATING, VENTILATION AND AIR CONDITIONING EQUIPMENT
(INCLUDES MECHANICAL AND HYDRAULIC EQUIPMENT)

Bldg-No.	Manufacturer	Quantity	Gallons Capacity
401	Unknown	1	80
401	State	1	30
403	Mor Flo	2	55each
404	Mor Flo	2	55each
TA-1	Mor Flo	1	12
TA-2	Mor Flo	1	12
TA-3	Mor	1	12

AIR FILTERS

<u>BUILDING</u>	<u>LOCATION</u>	<u>SIZE</u>	<u>QUANTITY</u>
1	FTD	16X25X1	8
1	Level 6	24X24X4 (40% Pleated)	3
3	CAD	16X25X1	6
4	ENG	18X25X1	3
5	Equip Div	24X24X1	2
6	Motor Repair Shop	12X18X1/4 (Cut Filter)	1
8	Tool Room	12X18X1/4 (Cut Filter)	1
11	Gas Sta	12X18X1/4 (Cut Filter)	1
12	BEQ	12X18X1/4 (Cut Filter)	27
14	Rail Shop	12X18X1/4 (Cut Filter)	2
15	Corn Svc	16X25X2	3
15		20X25X2	3
15		20X25X1	2
15		20X20X1	1
17	FD	24X24X1	1
17		20X30X1	1
17	Com	16X25X1	8
17	Com Ctr	21X21X1 (Permanent)	2
17	TP Ofc	20X21X1	2
21	Post # 1	12X24X1/4 (Cut Filter)	1
24	Joe Watton Building	9X14X1 (Permanent)	1
24	Joe Watton Building	22X26X1	3
25	Health Clinic	24X24X1	1
26	Admin	16X20X2	12
26	Win Site	20X24X2 (40% Pleated)	1
32	PM	20X20X1	4
34	Vis Ctr	10X20X1	1

Attachment 1

List is approximate. Contractor shall create and maintain an updated and accurate list of the technical exhibits equipment and materials and submit the list to DPW monthly.

TECHNICAL EXHIBIT 29

HEATING, VENTILATION AND AIR CONDITIONING EQUIPMENT
(INCLUDES MECHANICAL AND HYDRAULIC EQUIPMENT)

<u>BUILDING</u>	<u>LOCATION</u>	<u>SIZE</u>	<u>QUANTITY</u>
44	Fire Station 1	See Below	
98	Post 1A	12X24X1/4 (Cut Filter)	1
101	Truck Insp	20X20X1	1
158	Night Gate	12X18X1/4 (Cut Filter)	1
160	Tracks 115	12X18X1/4 (Cut Filter)	1
305	Tracks 173	12X18X1/4 (Cut Filter)	1
306	Tracks 174	12X18X1/4 (Cut Filter)	1
401	Ft. Johnson	22X26X1	1
401		12X18X1/4 (Cut Filter)	1
403	Davis St. A & B	12X18X1/4 (Cut Filter)	2
404	Moore St. A & B	20X25X1	2

Building 44: VEHICLE EXHAUST SYSTEM (5)
MFG: AIRMATION – AIR TECHNOLOGY
MDL: AMAR302D-AT
CFM: 3,800
HP: 1
FILTER SYSTEM: CARBON V-BANK FILTER
HIGH EFFICIENCY FILTER CELL
PREFILTER PANEL
REEMAY POLYESTER ROLL 660'X40"X1"
AUTOMATIC ON/OFF