EMBASSY OF
THE UNITED STATES OF AMERICA
ROME, ITALY

TRI - MISSION ROME - FACILITY MANAGEMENT

NAPLES CHILLERS REPLACEMENT
NAPLES - ITALY, PIAZZA DELLA REPUBBLICA 2

MAY 7TH , 2026

EMBASSY OF
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ROME ITALY

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Project title:

NAPLES CHILLERS REPLACEMENT

OBO Project Number:

Property Number

Drawing Title:

PROJECT COVER SHEET

FAC-Engineering	05/07/2026
Issued for: Approval and Bidding	

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Scale VARIOUS G001

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GENERAL INFORMATION

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Project title:

NAPLES CHILLERS REPLACEMENT

OBO Project Number:

Property Number

Drawing Title:

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ABBREVIATIONS

A/C	AIR CONDITIONING
ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR (SIZE PER DETAILS)
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AL	ALUMINUM
APPROX	APPROXIMATE
BB	BASEBOARD HEATER
CD	CEILING DIFFUSER
CUH	CABINET UNIT HEATER
CH	CHILLER
CLG	CEILING
CNTRL	CONTROL
CP	CONDENSATE PUMP
CR	CEILING REGISTER
CU	CONDENSING UNIT
CW	COLD WATER
D	CONDENSATE DRAIN
DIA	DIAMETER
DN	DOWN
DX	DIRECT EXPANSION
(E)	EXISTING
EA	EXHAUST AIR
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
ELEC	ELECTRIC
ESP	EXTERNAL STATIC PRESSURE
EWH	ELECTRIC WATER HEATER
EXIST	EXISTING
F	FAN
FA	FIRE ALARM
FC	FAN COIL UNIT
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
GALV	GALVANIZED
HW	HOT WATER
HX	HEAT EXCHANGER
INSUL	INSULATION
L/S	LITER PER SECOND
MAX	MAXIMUM
MB	MAN BARS
MD	MANUAL DAMPER
MIN	MINIMUM
NO	NUMBER, NORMALLY OPEN
OA	OUTSIDE AIR
PD	PRESSURE DROP
PNL	PANEL
RA	RETURN AIR
RAD	RADIATOR
RAG	RETURN AIR GRILLE
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SAN	SANITARY
SD	SMOKE DETECTOR
SP	SPLITTER DAMPER
SR	SUPPLY REGISTER
TYP	TYPICAL
UH	UNIT HEATER
VFD	VARIABLE FREQUENCY DRIVE
W/	WITH
WC	WATER CLOSET
WH	WATER HEATER
@	AT
BT	BUFFER TANK
EV	EXPANSION VESSEL
Ø	DIAMETER

MECHANICAL NEW WORK SYMBOLS

SYMBOL	ABBREVIATION	DESCRIPTION
☒	CD	CEILING DIFFUSER
300X300		DUCTWORK
⧄	RAG	RETURN AIR GRILLE
300Ø		ROUND DUCT
		LINED DUCT
→	SA	SUPPLY AIR
←∿	RA, EA	RETURN, EXHAUST AIR
		DUCT OR PIPE (AS INDICATED)
		DUCT FLEXIBLE CONNECTION
AHU		AIR HANDLING UNIT
CU		CONDENSING UNIT
	HWRR	HIGH WALL RETURN REGISTER
		MANUAL VOLUME DAMPER
	FD	FIRE DAMPER
R		DUCT RISE IN DIRECTION OF AIRFLOW
D		DUCT DROP IN DIRECTION OF AIRFLOW
		FLEXIBLE DUCT CONNECTION
		FLEXIBLE DUCT
Ⓜ		MOTORIZED DAMPER
		RECTANGULAR SUPPLY DUCT UP
		RECTANGULAR SUPPLY DUCT DN
		RECTANGULAR RETURN/EXHAUST DUCT UP
		RECTANGULAR RETURN/EXHAUST DUCT DN
		90° MITERED ELBOW
EF		CEILING EXHAUST FAN
		THERMOSTAT (WALL MOUNTED, HARDWIRED)
		PUMP
		INLINE FAN
Ⓣ		WALL MOUNTED THERMOSTAT
Ⓟ		WALL MOUNTED DIFFERENTIAL PRESSURE SENSOR
		EQUIPMENT AND DUCTWORK TO BE REMOVED
x x		PIPING TO BE REMOVED
		NEW PIPE
		EXISTING PIPE
		PIPE ELBOW UP
		PIPE ELBOW DOWN
		TEE, OUTLET UP
		TEE, OUTLET DN
CHS		CHILLED WATER SUPPLY
CHR		CHILLED WATER RETURN
HWS		HOT WATER SUPPLY
HWR		HOT WATER RETURN
RS RS		REFRIGERANT SUCTION
RL RL		REFRIGERANT LIQUID
D		CONDENSATE DRAIN
		BALL VALVE
		GATE VALVE
		CHECK VALVE
		PIPE CAP
		MOTORIZED 2-WAY VALVE
		MOTORIZED 3-WAY VALVE
		COMBINATION SHUT OFF, FLOW METER & BALANCING VALVE (B&G CIRCUIT SETTER)
		THERMOMETER
		PRESSURE GAUGE W/SNUBBER & DIELECTRIC ISOLATOR
		BALANCING VALVE W/ P&T TEST PORTS (TOUR & ANDERSON STA-D)

	POINT OF CONN. BETWEEN NEW & EXISTING
	POINT OF DEMOLITION
☒	CEILING DIFFUSER
⧄	PERFORATED RETURN AIR GRILLE
ETR	EXISTING TO REMAIN
HVAC	HEATING VENTILATING AIR CONDITIONING
WH	NON FREEZE WALL HYDRANT
RAD	RADIATOR TO BE REMOVED
AC	AIR CONDITION UNIT TO BE REMOVED
CU	CONDENSING UNIT TO BE REMOVED
FCU	FAN COIL UNIT TO BE REMOVED
CH	CHILLER TO BE REMOVED
FC #	FAN COIL UNIT DESIGNATION
F #	FAN DESIGNATION
P #	PUMP DESIGNATION
	PRESSURE/TEMPERATURE RELIEF VALVE
65 (2-1/2)	DIMENSION = 65mm (2-1/2")
L	0.09 m^2 FACE DOOR LOUVER
U	25mm DOOR UNDER CUT

DESIGN ASSUMPTIONS

1. THE INTENT OF THIS PROJECT IS TO PROVIDE DESIGN AND CONSTRUCTION SERVICES IN ASSOCIATION WITH THE UTILITY BUILDING.

GENERAL NOTES AND SPECIFICATIONS

1. ALL WORK ON THIS PROJECT SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE CODES, STANDARDS AND WITH SPECIFICATIONS, AND ALL OTHER BUILDING/CODE OFFICIALS HAVING JURISDICTION OVER THE FACILITY.
2. THE INTENT OF THESE DRAWINGS IS TO PROVIDE COMPLETE AND PROPERLY FUNCTIONING SYSTEMS. PROVIDE ALL LABOR AND MATERIALS NECESSARY TO ACHIEVE SUCH ENDS. CONTRACTOR SHALL REVIEW CONSTRUCTABILITY OF PLANS. ANY OBSERVED FAULTS OR AMBIGUITY IN THIS PLAN SET SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER, SO THAT THE MATTER MAY BE RESOLVED PRIOR TO MANUFACTURE/CONSTRUCTION.
3. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURERS' RECOMMENDATIONS.
4. CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE EXISTING EQUIPMENT ENCLOSURES OR FINISHES DURING RENOVATION. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
5. PATCH AND REPAIR EXISTING EXTERIOR AND INTERIOR PENETRATIONS WHERE PIPING IS BEING REMOVED TO MATCH EXISTING. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.

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Heating and DHW pipes - DPR 412/93 (lambda = 0.040 W/mK)	
Pipe diameter (mm)	**Minimum thickness (mm)**
<= 20	20
20 - 39	30
40 - 59	38
60 - 79	40
80 - 99	46
>= 100	50
Corrections:	
- Pipes in unheated rooms (shafts, internal false ceilings): thickness x 0.5	
- Pipes exposed outdoors or in unprotected unconditioned spaces: full table values	

Chilled water pipes - INDOOR (water 7/12 C, ambient 27 C / 65% RH, λ=0.036-0.040)"	
Pipe diameter (mm)	**Typlcal thickness (mm)**
<= 22	13 - 19
22 - 42	19 - 25
42 - 76	25 - 32
76 - 100	32 - 40

"Chilled water pipes - OUTDOOR (water 7/12 C, ambient 32 C / 70% RH, λ=0.036-0.040)"	
Pipe diameter (mm)	**Typical thickness (mm)**
<= 22	25 - 32
22 - 42	32 - 40
42 - 76	40 - 50
76 - 100	50 - 60

Project title:

NAPLES CHILLERS REPLACEMENT

OBO Project Number:

Property Number

Drawing Title:

GENERAL NOTES, ABBREVIATIONS AND SYMBOLS

FAC-Engineering 05/07/2026

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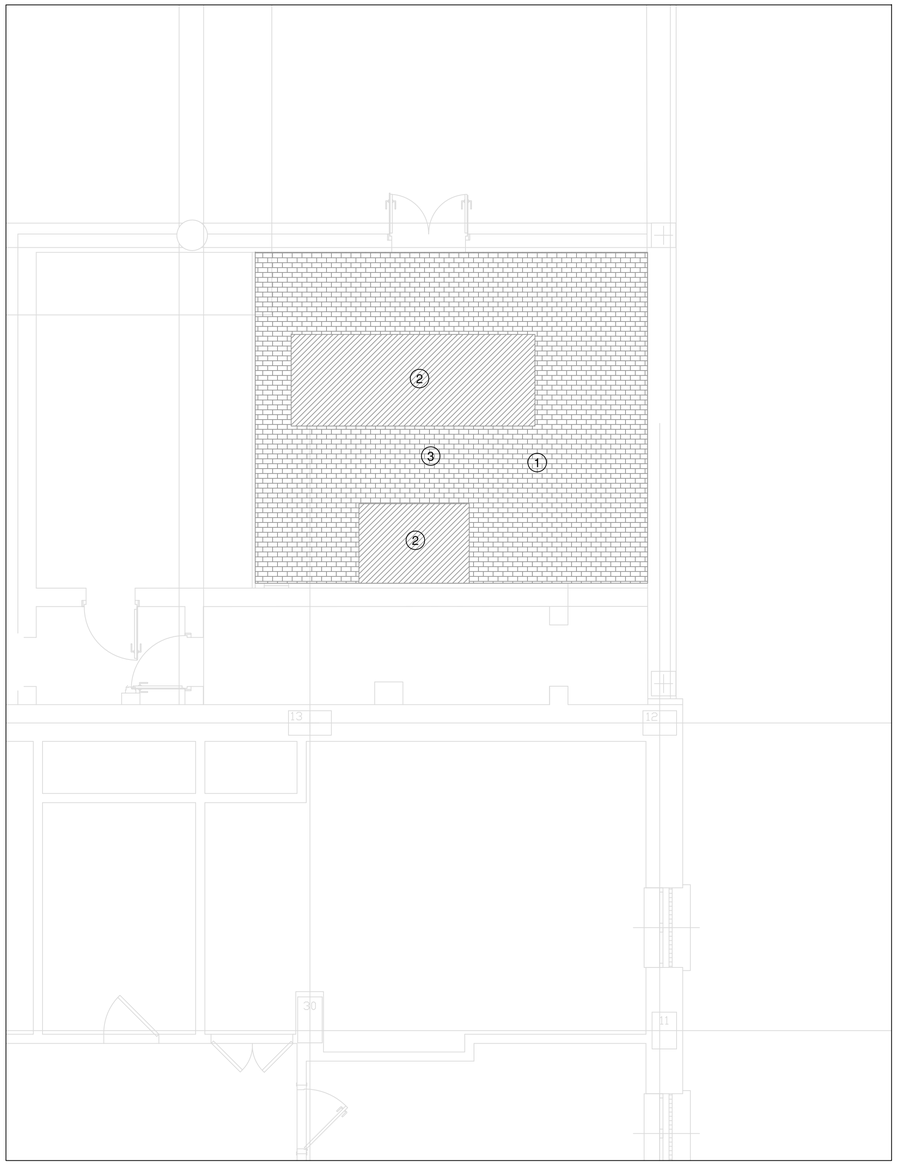
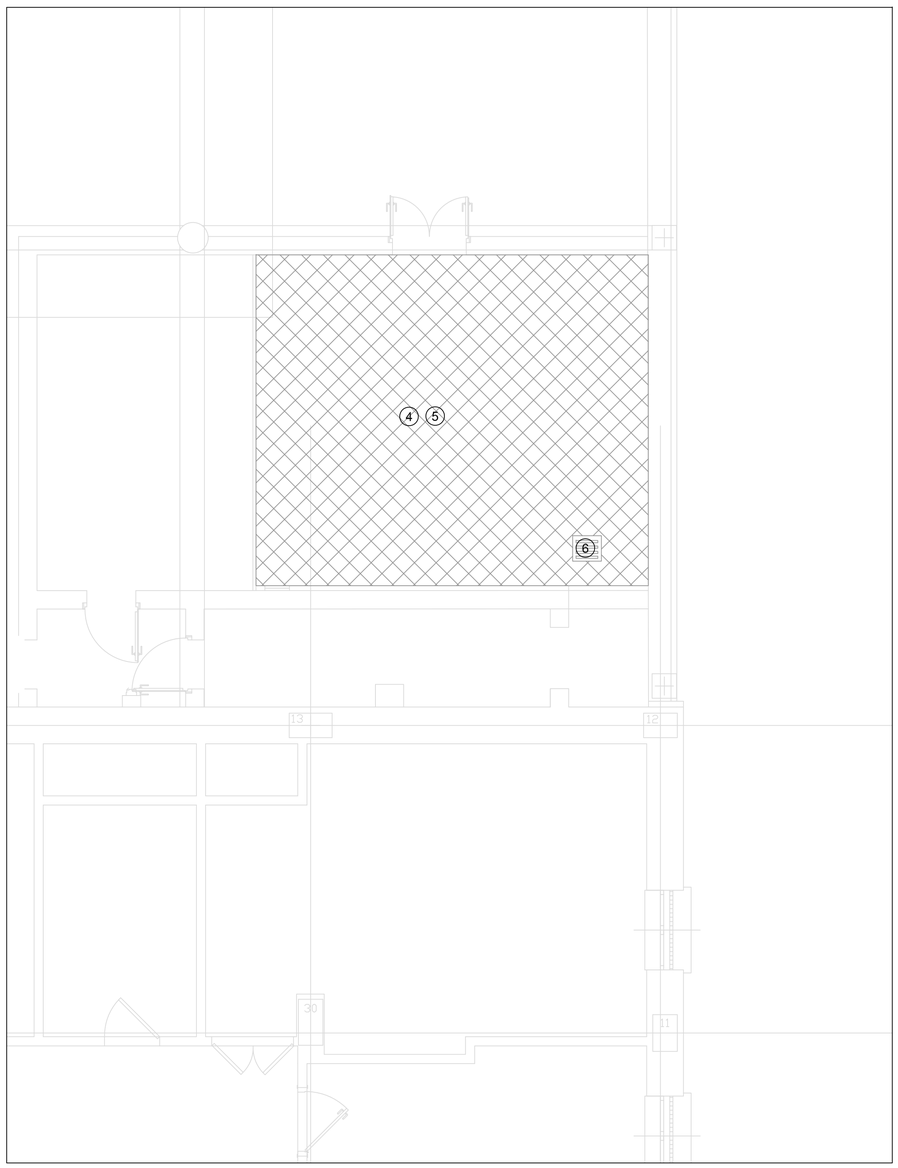


1 A101 GROUND FLOOR PLAN - EXISTING CONDITION

Scale: 1:50



1 A101 GROUND FLOOR PLAN - NEW CONDITION

Scale: 1:50

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KEY NOTES:

1. DEMO EXISTING FLOOR TILES, BASEBOARD AND SCREED
2. DEMO EXISTING CONCRETE PADS
3. SKIM-COAT AND PAINT WALLS AND CEILING
4. ALL PENETRATIONS SHALL BE SEALED WITH AN APPROVED SEALANT THAT WILL MAINTAIN THE FIRE, SMOKE AND WATERPROOF RATINGS OF THE TYPE OF CONSTRUCTION WHERE THE PENETRATION IS LOCATED
5. CREATE A NEW SCREED AND INSTALL NEW TILES AND BASEBOARD. NEW FLOOR SHALL BE SLOPED TOWARDS THE DRAIN (MIN 1%)
6. INSTALL NEW DRAIN

Project title:

NAPLES CHILLERS REPLACEMENT

OBO Project Number:

Property Number

Drawing Title:

CIVIL WORK

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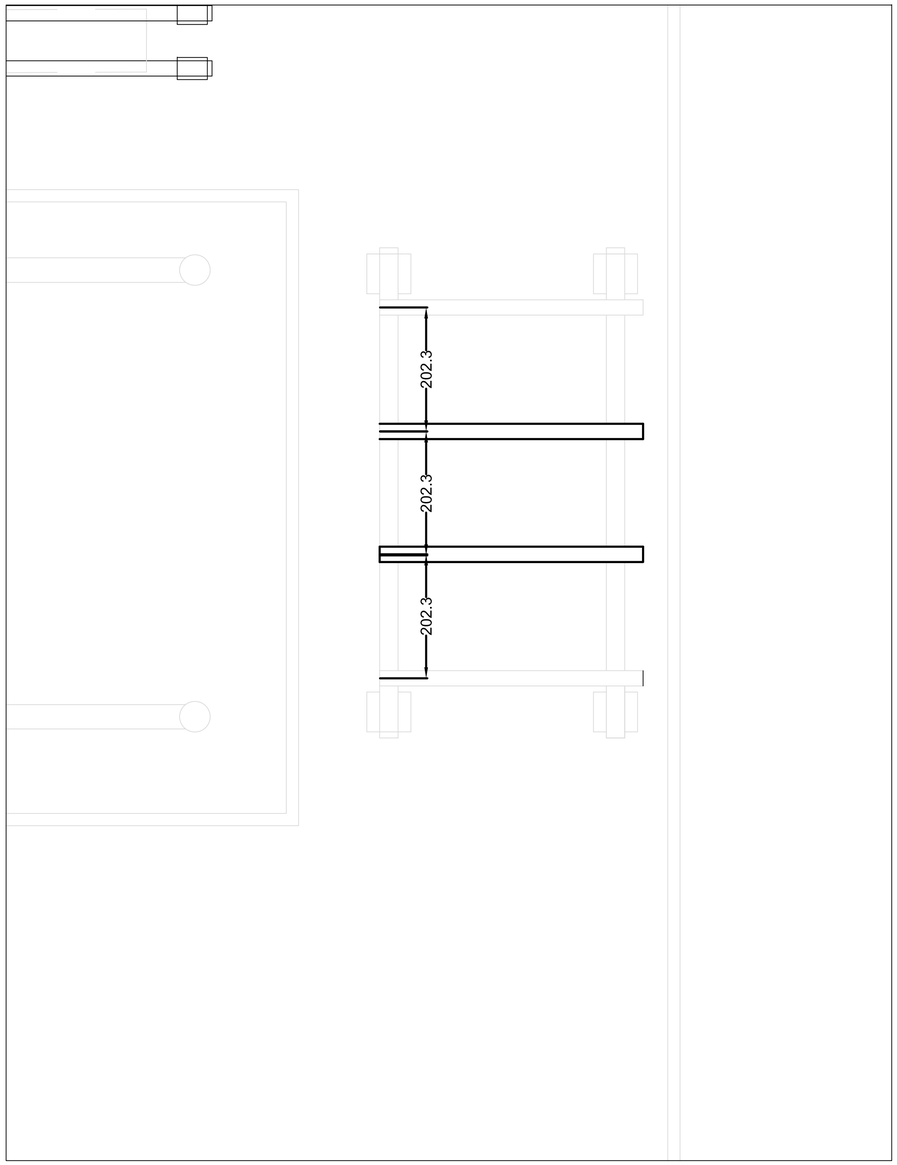
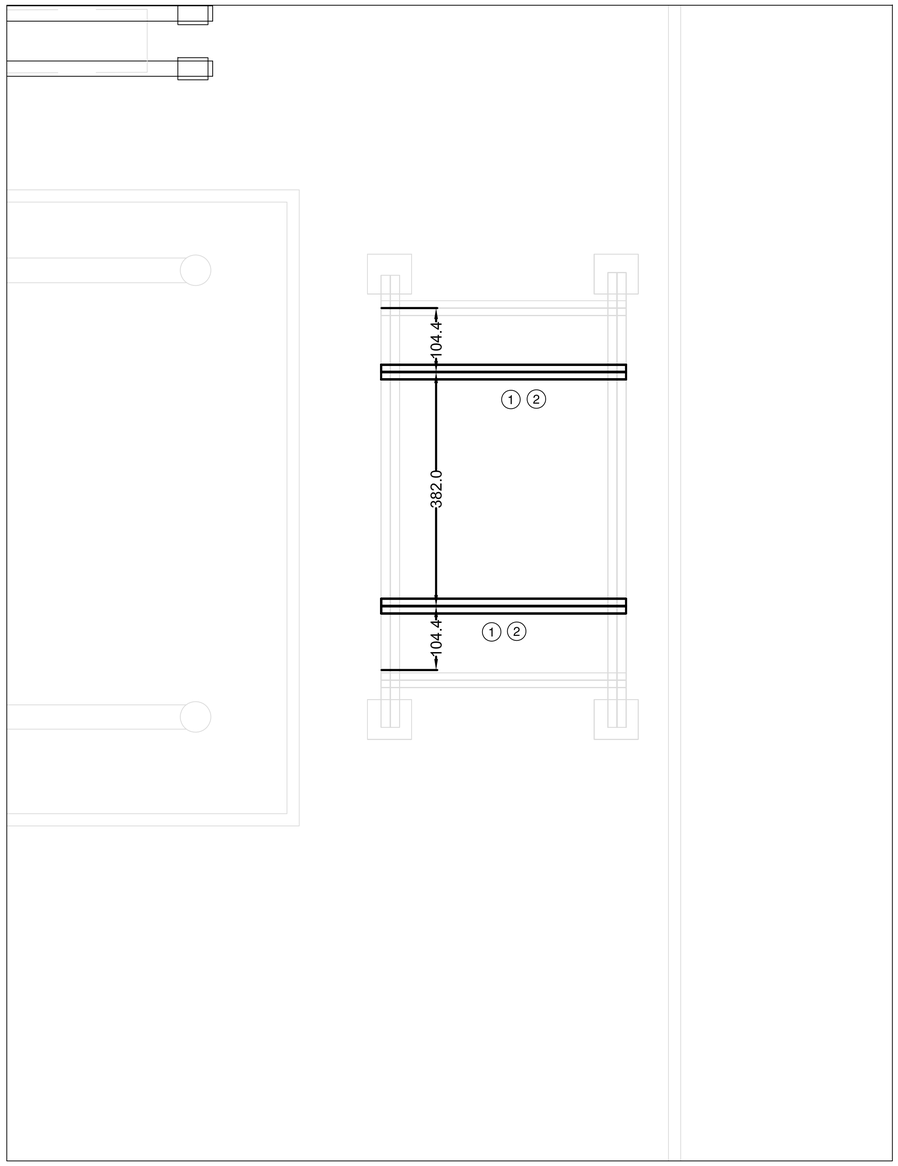


1 S101 GROUND FLOOR PLAN - EXISTING CONDITION

Scale: 1:50



1 S101 ROOF PLAN - NEW CONDITION

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KEY NOTES:

1. MODIFY EXISTING SUPPORT STRUCTURE TO HOST THE NEW HEAT PUMPS
2. REMOVE PAINT FROM THE EXISTING BEAMS, BRUSH THEM TO REMOVE RUST, COAT THEM WITH ANTI-CORROSIVE PAINT AFTER RELOCATION

Project title:

NAPLES CHILLERS REPLACEMENT

OBO Project Number:

Property Number

Drawing Title:

EXISTING STRUCTURE MODIFICATIONS

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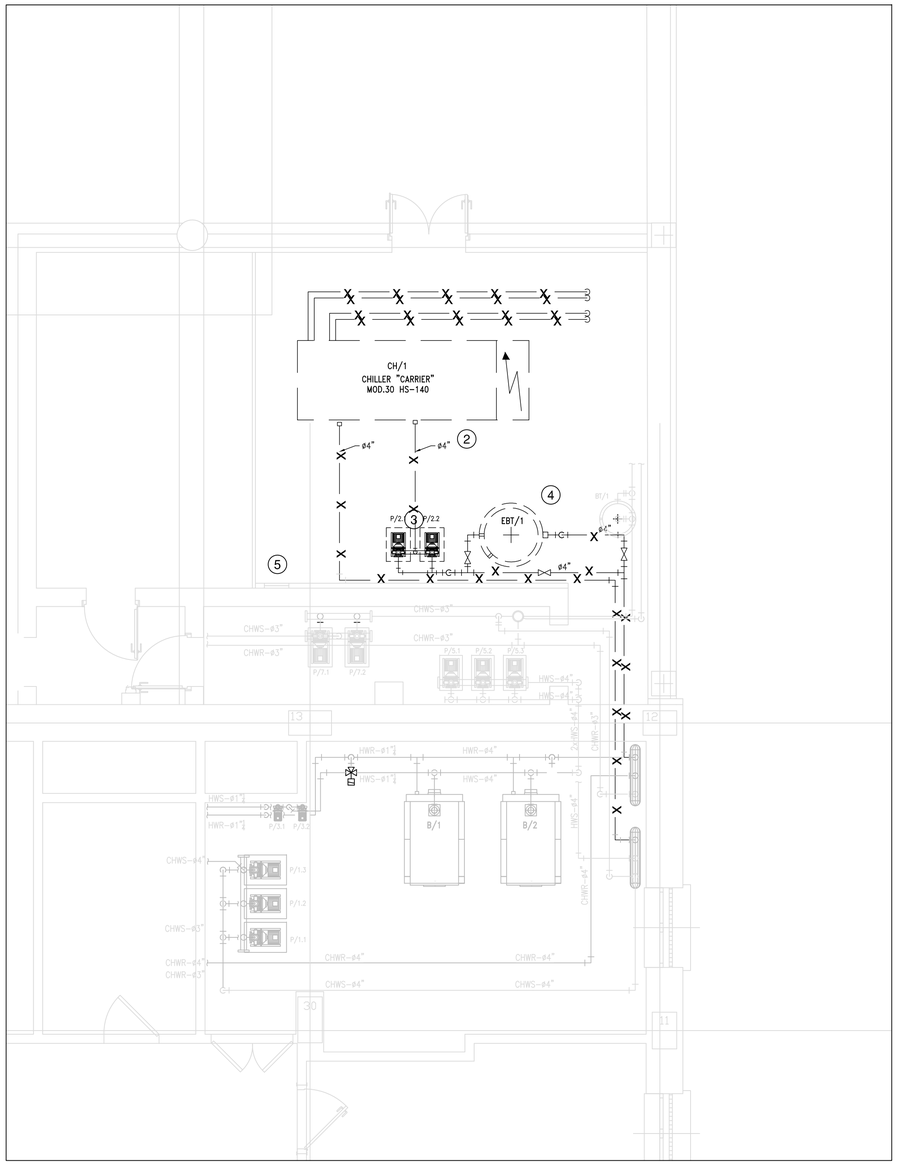
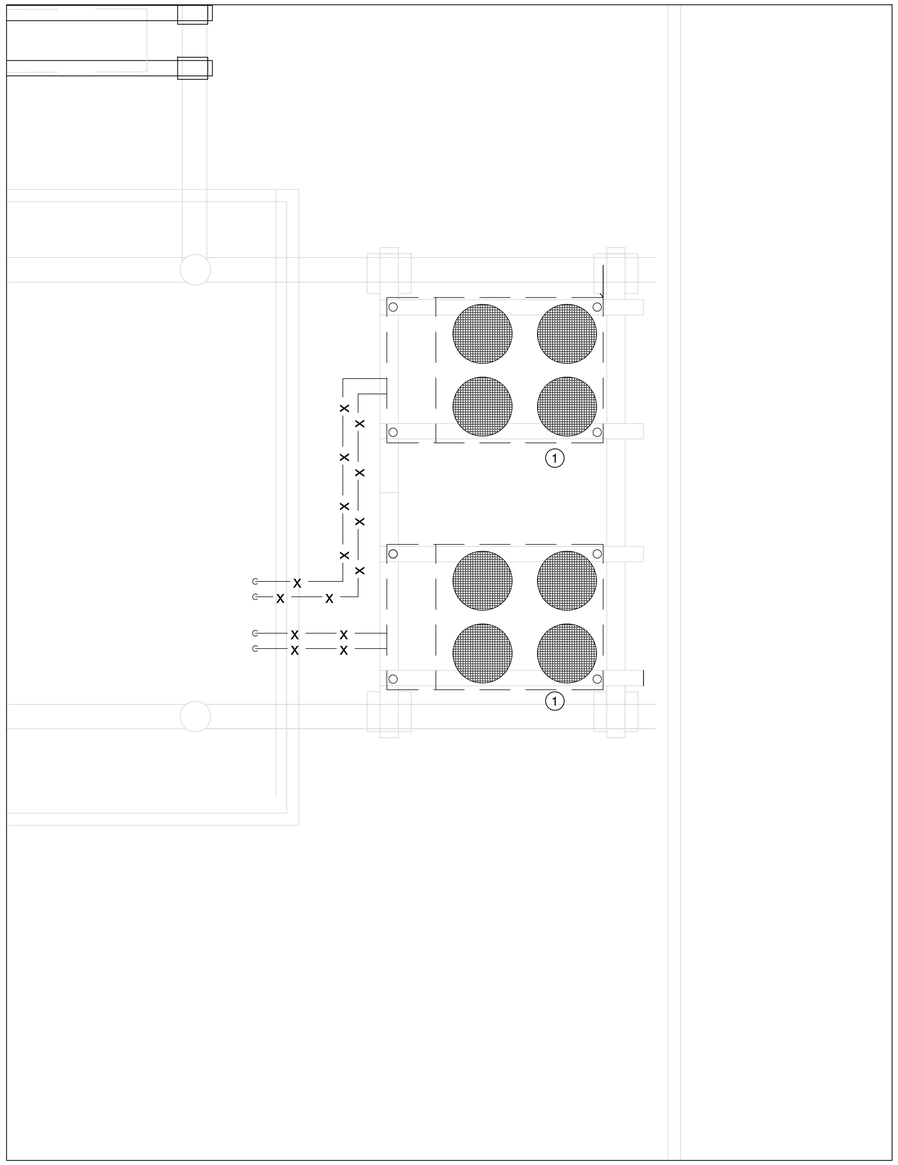


1 M101 GROUND FLOOR PLAN - EXISTING CONDITION

Scale: 1:50



1 M101 ROOF PLAN - EXISTING CONDITION

Scale: 1:50

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KEY NOTES:

1. REMOVE EXISTING CONDENSERS AND REFRIGERANT PIPING
2. REMOVE EXISTING CHILLER AND WATER PIPING
3. REMOVE PUMPS
4. REMOVE BUFFER TANK
5. REMOVE EXISTING DISTRIBUTION PANEL AND CABLES

Project title:

NAPLES CHILLERS REPLACEMENT

OBO Project Number:

Property Number

Drawing Title:

EXISTING CONDITION

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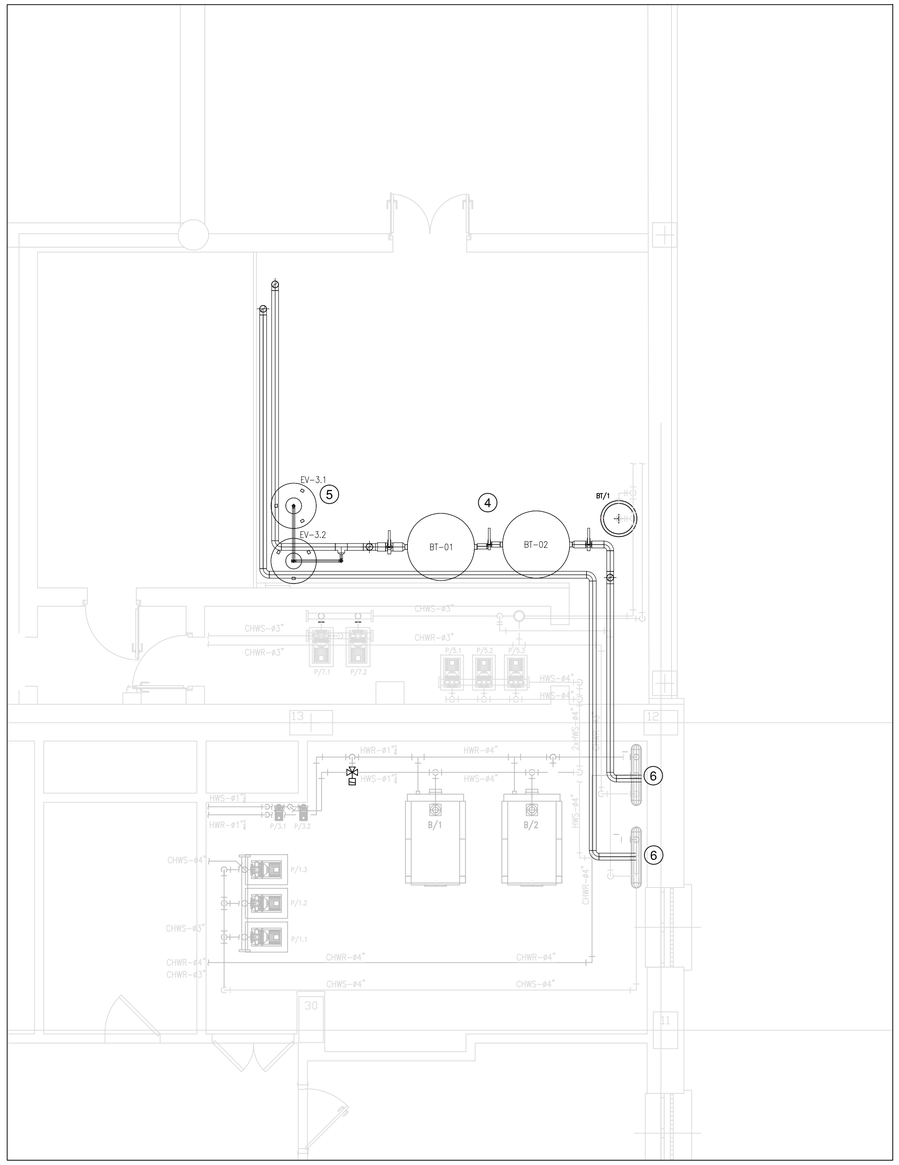
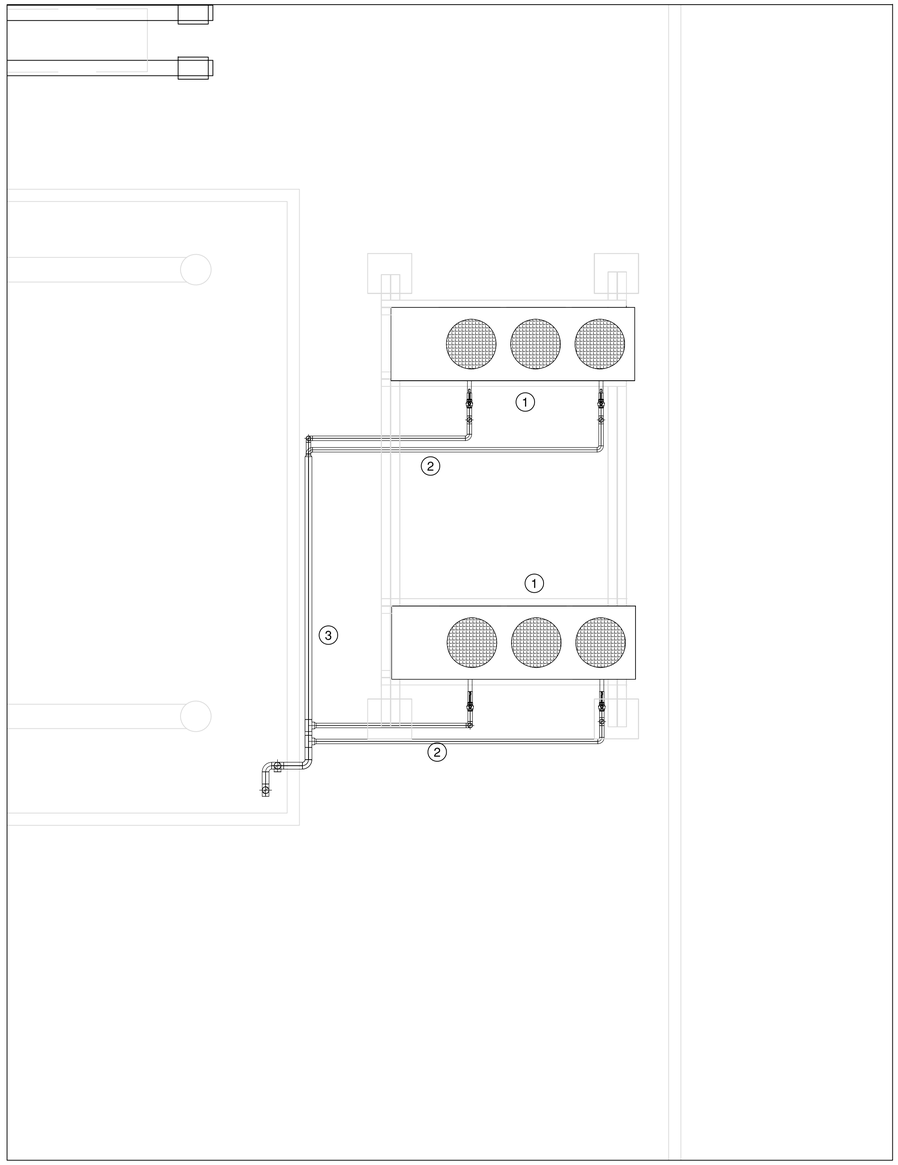


1 M102 GROUND FLOOR PLAN - NEW CONDITION

Scale: 1:50



1 M102 ROOF PLAN - NEW CONDITION

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KEY NOTES:

1. REVERSIBLE HEAT PUMPS
2. CHS & CHR PIPES DN 65
3. CHS & CHR PIPES DN 100
4. STAINLESS STEEL BUFFER TANKS 1500L EACH
5. EXPANSION TANKS 400L
6. CONNECT TO EXISTING MANIFOLDS

Project title:

NAPLES CHILLERS REPLACEMENT

OBO Project Number:

Property Number

Drawing Title:

NEW CONDITION

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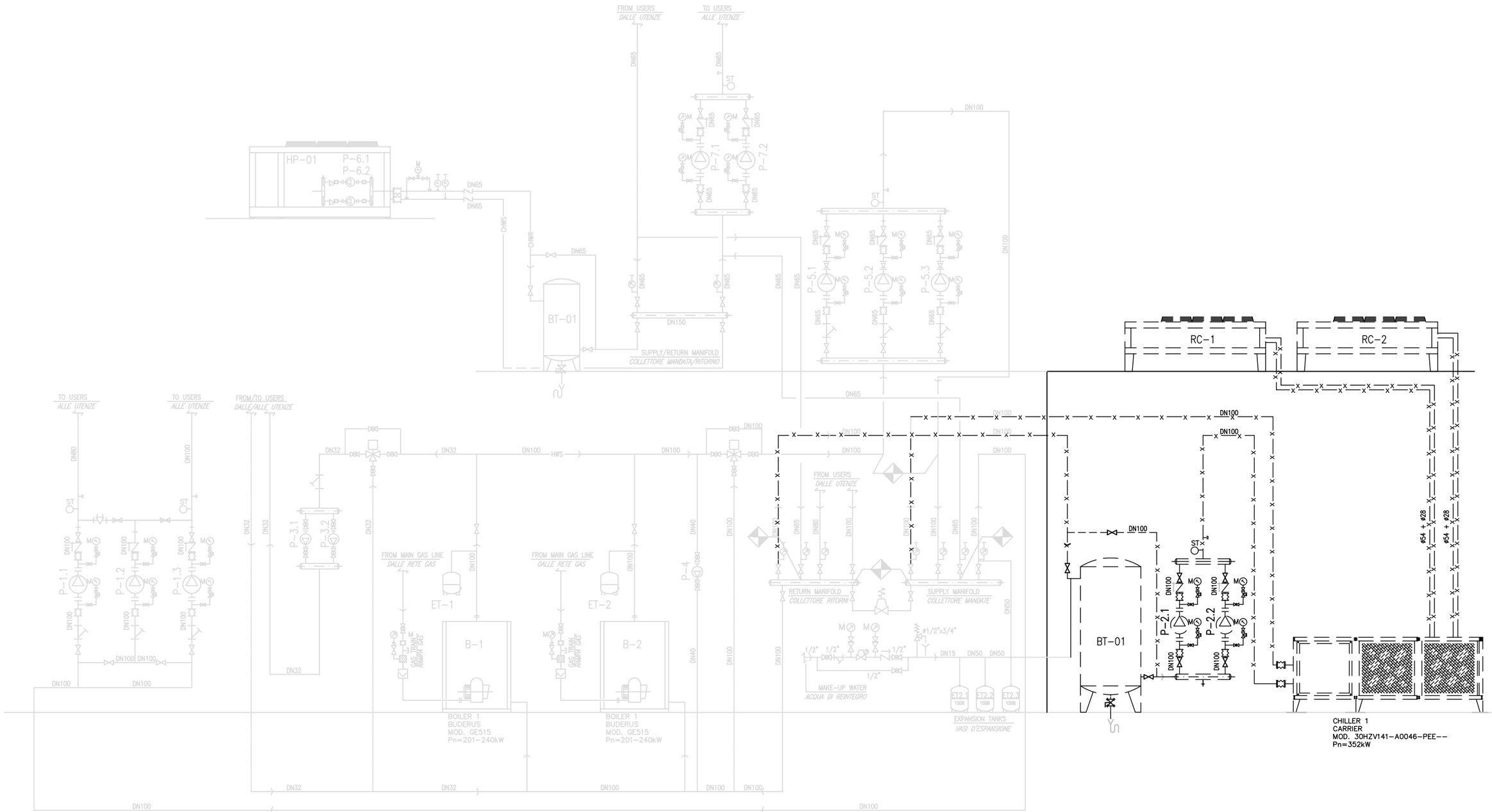

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ROME, ITALY

Project title:

NAPLES CHILLERS REPLACEMENT

OBO Project Number:

Property Number:

Drawing Title:

EXISTING MECHANICAL LAYOUT

Scale: NO SCALE

Dwg. No.: M103

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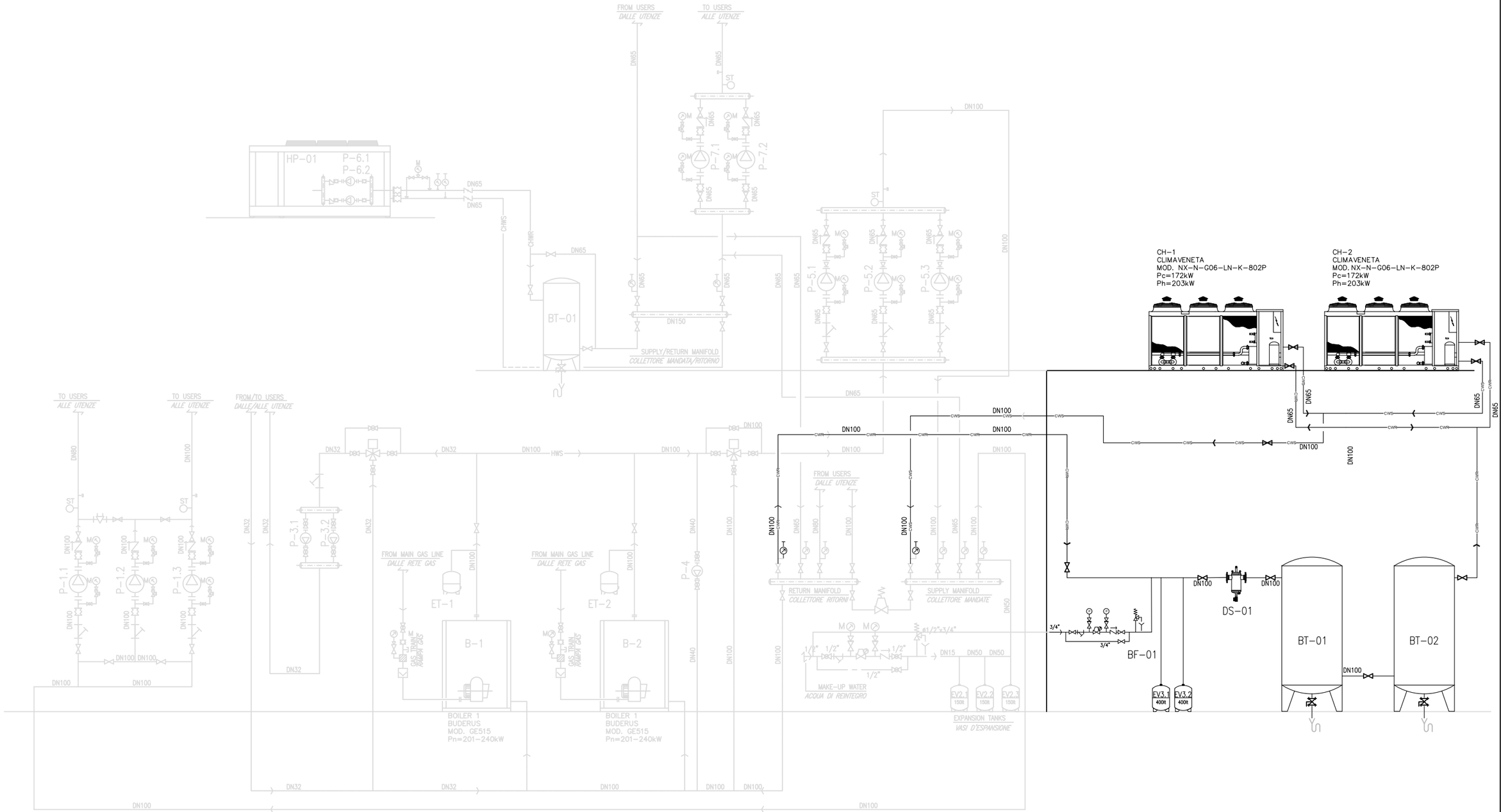

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	OBO Project Number: Property Number:	Scale: NO SCALE Dwg. No.: M104

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BACK FLOW PREVENTER

MARK	SERVICE	DIFFERENTIAL OPERATING PRESSURE (kPa)	TYPE	CONNECTION	MAX WORKING PRESSURE(bar)	MAX OPERATING TEMPERATURE (C°)	MATERIAL
BF-01	HEAT PUMP	14	BA	1/2"	10	65	BRASS

MAGNETIC DIRT SEPARATOR

MARK	SERVICE	PARTICLE SEPARATION RATING	TYPE	CONNECTION	MAX WORKING PRESSURE(bar)	MAX OPERATING TEMPERATURE (C°)	MATERIAL
DS-01	HEAT PUMP	5 μm	MAGNETIC	DN100 FLANGED	10	100	STEEL

EXPANSION TANKS SCHEDULE

MARK	SERVICE	CAPACITY (L)	TESTING PRESSURE (bar)	TYPE	PRECHARGE PRESSURE (bar)	FINAL PRESSURE(bar)	MAX OPERATING TEMPERATURE (C°)	APPROVED	–
EV-3.1	HEAT PUMP	400	10	BLADDER	3.3	6	120	I.S.P.E.S.L.	
EV-3.2	HEAT PUMP	400	10	BLADDER	3.3	6	120	I.S.P.E.S.L.	

DUAL TEMPERATURE WATER BUFFER TANK SCHEDULE

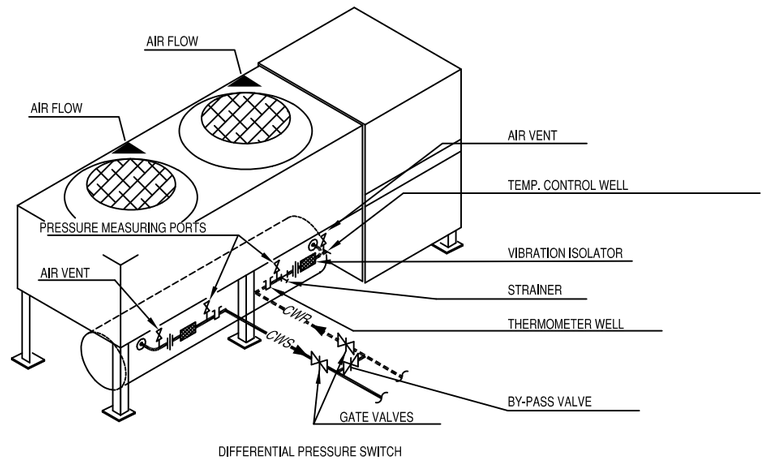
MARK	TYPE	LOCATION	MINIMUM CAPACITY (L)	MATERIAL	MAX PRESSURE LOAD (bar)	NOTES
BT/1	CYLINDRICAL	GROUND	1500	STLESS STEEL	6	1
BT/2	CYLINDRICAL	GROUND	1500	STLESS STEEL	6	1

NOTES:
1. CHILLED WATER BUFFER TANK WILL BE INSULATED IN ACCORDANCE WITH SPECIFICATION

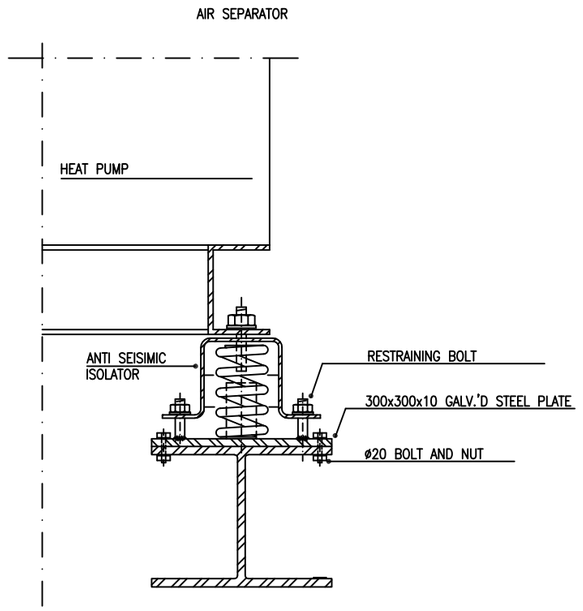
AIR COOLED REVERSIBLE HEAT PUMP UNIT

MARK	COOLING CAPACITY (kW)	HEATING CAPACITY (kW)	REFRIGERANT TYPE	EVAPORATOR				COMPRESSORS				
				WATER FLOW L/s	TEMP (°C) ENTER	TEMP (°C) LEAVE	MAX. PRESS. DROP kPa	NUMBER	TYPE	MIN. EER[1] (kW/kW)	MIN. COP[1] (kW/kW)	
HP-1	172.4	202.9	R454B	9.796	12 40	7 45	58.2	2	SCROLL	2.19	3.05	
HP-1	172.4	202.9	R454B	9.796	12 40	7 45	58.2	2	SCROLL	2.19	3.05	

NOTES:
1. AS PER EN-14511



HEAT PUMP CONNECTIONS DETAIL



ANTISEISMIC ISOLATOR

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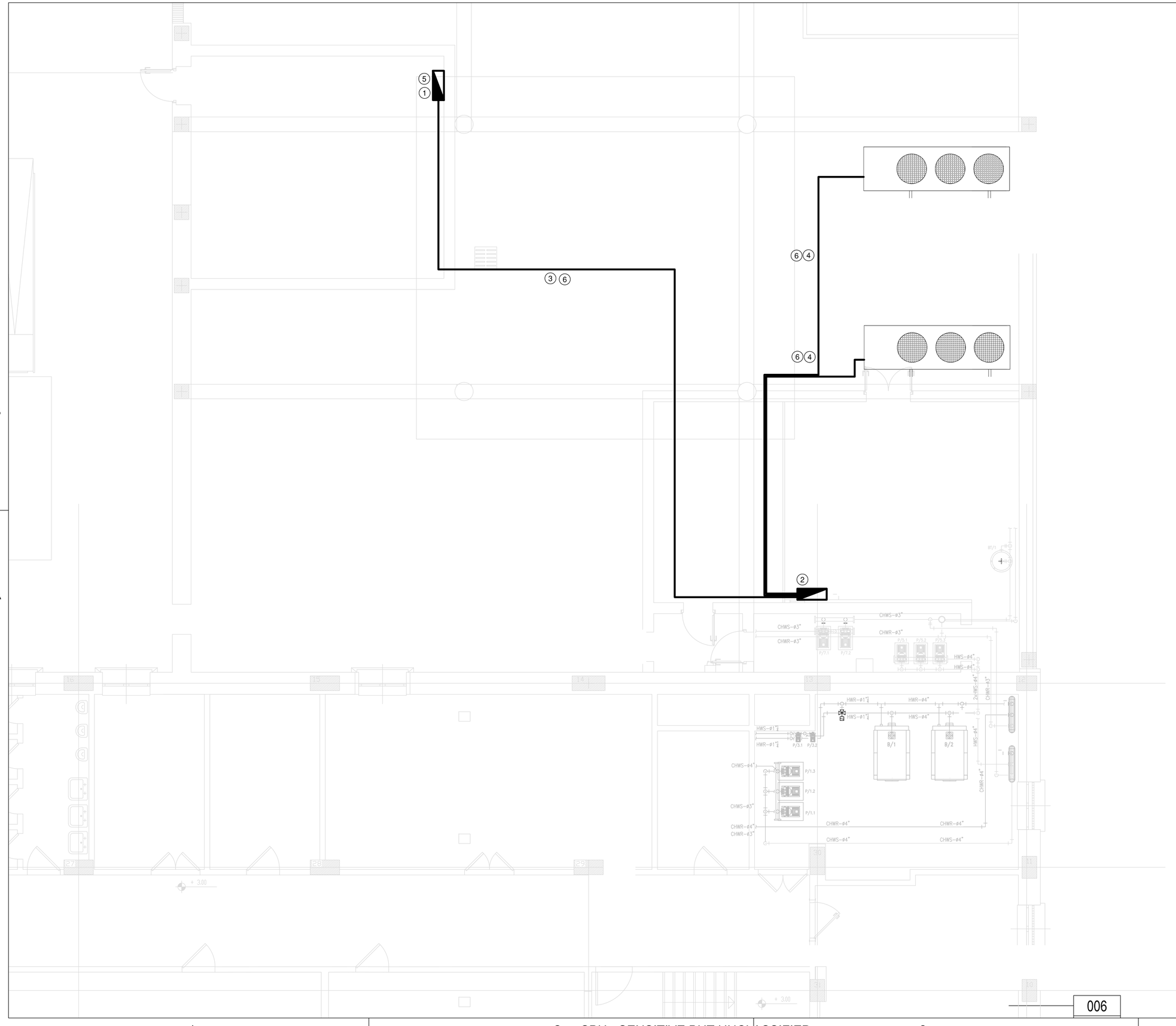
Project title:
NAPLES CHILLERS REPLACEMENT

OBO Project Number: Property Number:

Drawing Title:
SCHEDULES

Scale: NO SCALE Dwg. No.: M105



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KEY NOTES:

1. EXISTING DISTRIBUTION PANEL
2. NEW DISTRIBUTION PANEL FOR HEAT PUMPS
3. NEW CABLES - 4x(1x185)+1G95, FG16OM16 0.6/1 kV, Cca-s1,d1,a1
4. NEW CABLES - 4x(1x70)+1G35, FG16OM16 0.6/1 kV, Cca-s1,d1,a1
5. INSTALL NEW 320A CIRCUIT BREAKER
6. NEW DEDICATED EMT

Project title:

NAPLES CHILLERS REPLACMENT

OBO Project Number: 2008

Property Number

Drawing Title:

ELECTRICAL MODIFICATIONS

FAC-Engineering 05/07/2026

Issued for: Approval and Bidding

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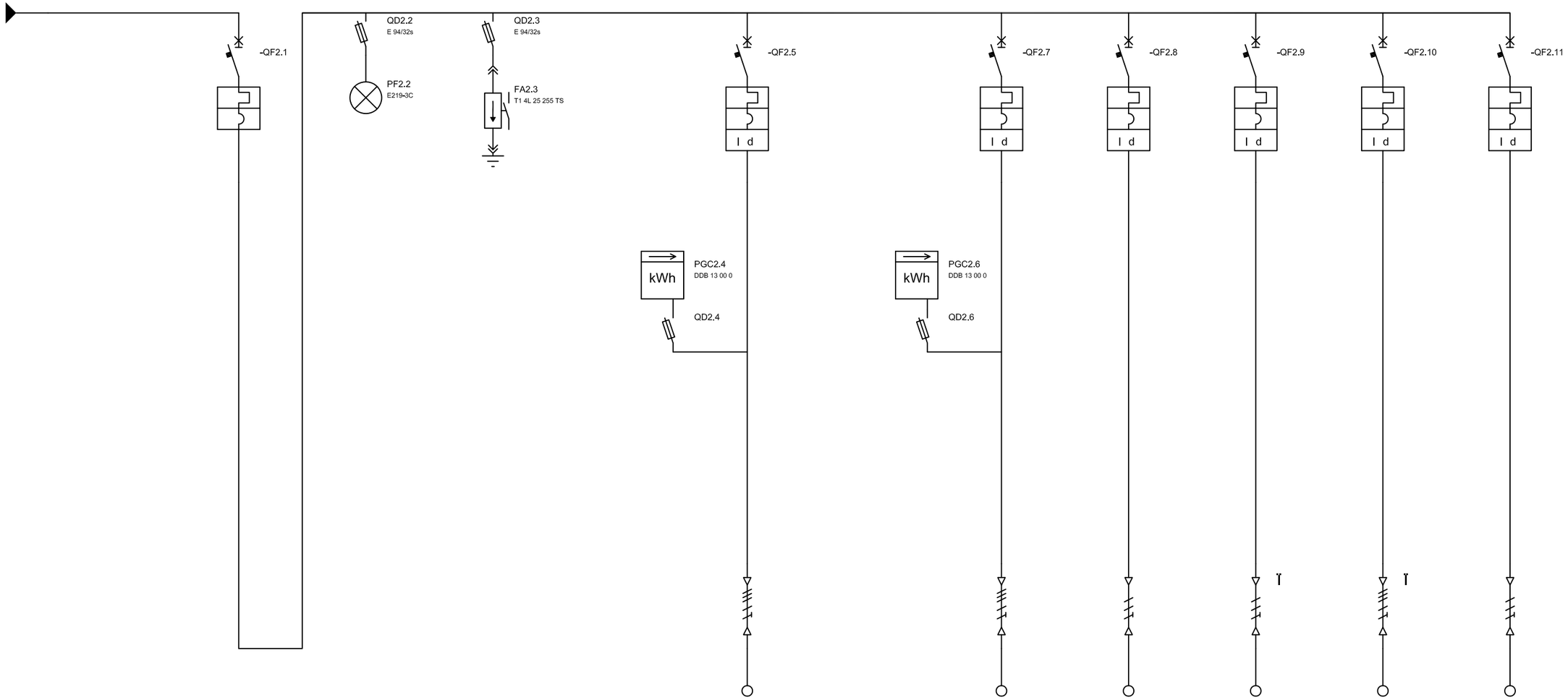
FAC/Engineering	Issued on: 05/07/2026	Rev. No.1 dated:	For:	Rev. No.2 dated:	For:



	Descrizione			DP DISCONNECTOR		MAINS ON		SPD		ENERGY METER 1		HEAT PUMP 1		ENERGY METER 2		HEAT PUMP 2		LIGHTS		SERVICE OUTLETS		4TH FLOOR CHILLER		SPARE	
Utenza	Tensione	[V]	dU %									400	1.82			400	1.82	231	1.67	231	1.97	400	2.56	231	2.41
	Potenza attiva	[kW]	Fattore util. %									96.65	100			96.65	100	1.04	50	3.12	80	9.35	100	3.12	100
	In	[A]	Cosphi									155.0	0.90			155.0	0.90	5.0	0.90	15.0	0.90	15.0	0.90	15.0	0.90
Produttore				ABB								ABB				ABB		ABB		ABB		ABB		ABB	
Interruttore o Sezionatore	Tipo			T4N 320 PR221DS-LS/I 320A								XT1B 160 TMD 160-1600 N=50% RC Inst x XT1				XT1B 160 TMD 160-1600 N=50% RC Inst x XT1		S202L-C10 DDA202 AC-25/0,03		S202L-C16 DDA202 AC-25/0,03		S204-C16 DDA204 B-63/0,3		S202L-C16 DDA202 AC-25/0,03	
	Poli		In [A]	4P	320							4P	160			4P	160	2P	10	2P	16	4P	16	2P	16
	Ith	[A]	Idn [A]	307.2								155.0	0.030			155.0	0.030	10.0	0.030	16.0	0.030	16.0	0.300	16.0	0.030
	Im	[A]	Icu/Icn [kA]	1440.0	36.0							1600.0	18.0			1600.0	18.0	100.0	10.0	160.0	10.0	160.0	10.0	160.0	10.0
Fusibile	Tipo		Taglia [A]																						
Contattore	Tipo		In [A]																						
Relè termico	Tipo		Settaggio [A]																						
Linea di potenza	Tipo di cavo											Cu-EPR/XLPE				Cu-EPR/XLPE		Cu-EPR/XLPE		Cu-EPR/XLPE		Cu-EPR/XLPE		Cu-EPR/XLPE	
	Formazione											4x(1x70)+1G35				4x(1x70)+1G35		2x(1x1.5)+1G1.5		2x(1x2.5)+1G2.5		4x(1x2.5)+1G2.5		2x(1x1.5)+1G1.5	
	Lunghezza	[m]	Iz [A]									10	222.0			10	222.0	5	23.0	5	31.0	20	28.0	5	23.0
	IB L1	[A]	Num. di Posa	269.6								155.0	22A			155.0	22A		22A	12.0	22A	15.0	22A		22A
	IB L2	[A]	dU %	272.0								155.0	0.21			155.0	0.21		0.13		0.37	15.0	0.95	15.0	0.80
	IB L3	[A]	Ib min [kA]	262.0								155.0	2.43			155.0	2.43	2.5	0.73		1.08	15.0	0.41		0.86
	IB N	[A]	Ib max [kA]	9.1								0.0	6.69			0.0	6.69	2.5	3.76	12.0	3.76	0.0	6.69	15.0	3.76

EMBASSY OF
THE UNITED STATES OF AMERICA
ROME, ITALY

Project title:

NAPLES CHILLERS REPLACEMENT

OBO Project Number:

Property Number:

Drawing Title:

HEAT PUMPS DP

Scale: NO SCALE

Dwg. No.: E102