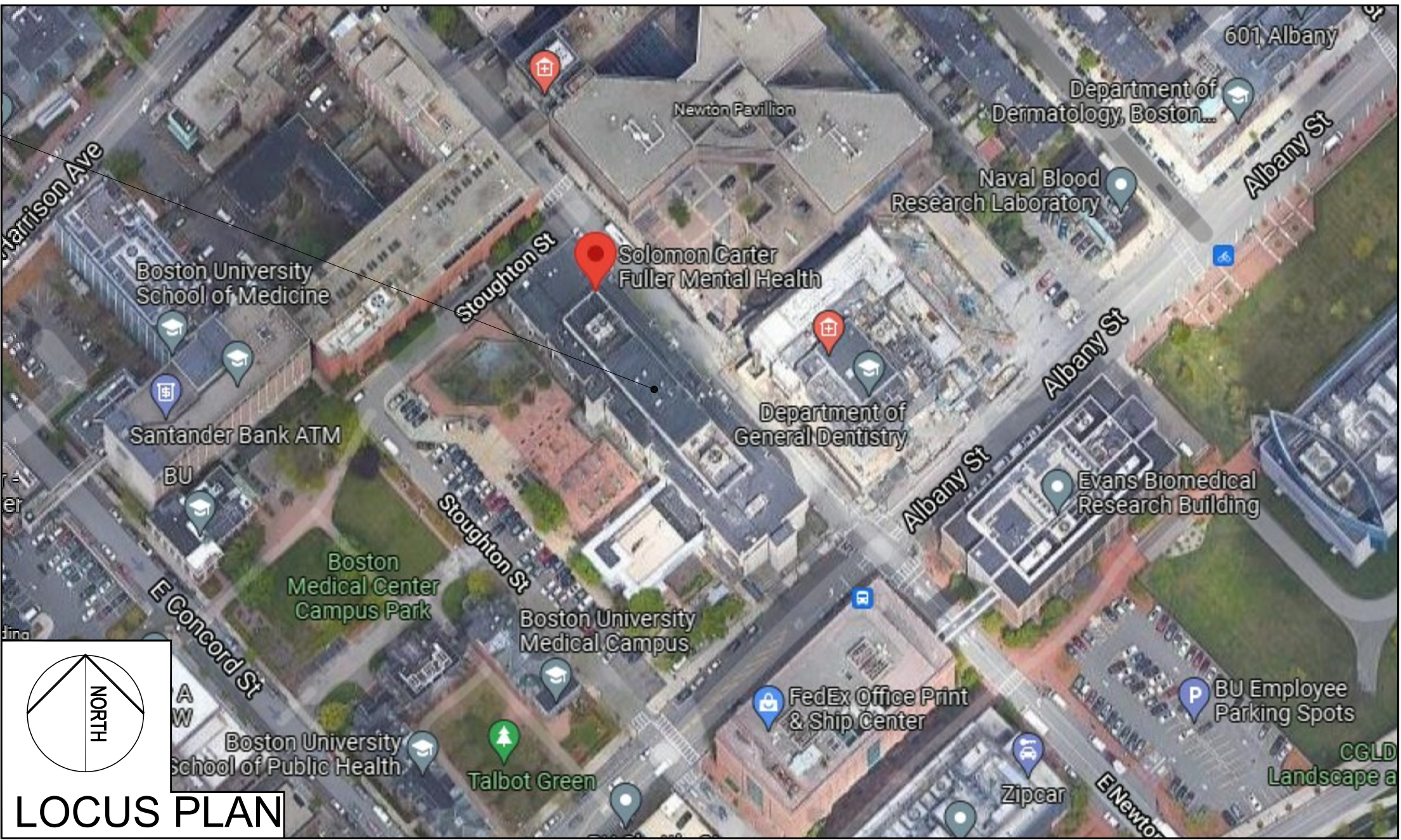


SOLOMON CARTER FULLER
MENTAL HEALTH CENTER
85 E NEWTON ST,
BOSTON, MA 02118



DMH Project No. 2022-031A



MASSACHUSETTS DEPARTMENT OF MENTAL HEALTH

SOLOMON CARTER FULLER MENTAL HEALTH

CENTER COOLING TOWER REPLACEMENT

100% CONSTRUCTION DOCUMENTS 01/14/2022

Drawing No.	Description
S-101	ROOF PARTIAL PLAN
S-102	SECTIONS AND DETAILS
D-200	GENERAL PENTHOUSE DEMOLITION PLAN
M-000	MECHANICAL LEGEND, NOTES, & ABBREVIATIONS
MD-200	MECHANICAL PENTHOUSE DEMOLITION PLAN
M-200	MECHANICAL PENTHOUSE PLAN
M-600	MECHANICAL DETAILS
M-601	MECHANICAL DETAILS 2
M-700	MECHANICAL SCHEDULES
E-000	ELECTRICAL LEGEND, NOTES, & ABBREVIATIONS
ED-300	ELECTRICAL POWER PENTHOUSE DEMOLITION PLAN
ED-301	ELECTRICAL DEMOLITION 10TH FLOOR PLAN
E-300	ELECTRICAL POWER PENTHOUSE PLAN
E-301	ELECTRICAL POWER 10TH FLOOR PLAN
E-600	ELECTRICAL DETAILS

OWNER: **MASSACHUSETTS DEPARTMENT
OF MENTAL HEALTH**
167 LYMAN STREET
WESTBOROUGH, MA 01581

STRUCTURAL: **LIN ASSOCIATES, INC.**
2001 BEACON STREET, SUITE 310
BRIGHTON, MA 02135

MEP ENGINEERING: **ARCHITECTURAL
ENGINEERS** 63 Franklin Street
Boston, MA 02110
(617) 542-0810
www.arcengrs.com

STRUCTURAL

MECHANICAL

ELECTRICAL

0000

Project Title:

SOLOMON CARTER
FULLER MENTAL
HEALTH CENTER
COOLING TOWER
REPLACEMENT

Engineer:
**ARCHITECTURAL
ENGINEERS** 63 Franklin Street
Boston, MA 02110
(617) 542-0810
www.archengrs.com

Consultant:

NOTES:

1. PROVIDE 38" PLYWOOD OVER THE ROOF AROUND BOTH COOLING TOWERS FOR THE ENTIRETY OF DEMOLITION AND INSTALLATION OF THE NEW COOLING TOWERS AND ASSOCIATED PIPING, ELECTRICAL AND CONTROLS. REMOVE ALL ROOF PROTECTION AT THE COMPLETION OF THE PROJECT.
2. PROVIDE CRANE PLAN TO THE ENGINEER FOR APPROVAL PRIOR TO THE START OF THE WORK. THE CONTRACTOR SHALL OBTAIN ALL PERMITS WITH THE CITY OF BOSTON FOR ROAD CLOSURES AND OTHER WORK ASSOCIATED WITH THE RIGGING OF ALL EQUIPMENT AND MATERIALS. DUE TO THE PHASING OF THIS PROJECT, IT SHALL BE ASSUMED MULTIPLE CRANE MOBILIZATIONS AND DEMOBILIZATIONS SHALL BE REQUIRED. REFER TO SPECIFICATIONS FOR PROJECT WORK SEQUENCE.

COOLING TOWER CT-1 TO BE DEMOLISHED
AND REMOVED IN ITS ENTIRETY. ALL
EXISTING STEEL DUNNAGE SHALL BE
DEMOLISHED AND REMOVED. REFER TO
STRUCTURAL DRAWING S-102 FOR
INFORMATION REGARDING PARTIAL
CUTTING AND REMOVAL OF THE TOP OF
EXISTING CONCRETE SUPPORT PIERS.
VERTICAL REBAR MUST BE PRESERVED.

DEMOLISH AND REMOVE
EXISTING CONDENSER WATER
PUMPS P-1 AND P-2

DEMOLISH AND REMOVE EXISTING
CHILLED WATER PUMP P-4

ABANDONED COOLING TOWER CT-2 TO BE DEMOLISHED AND REMOVED IN ITS ENTIRETY. ALL EXISTING STEEL DUNNAGE SHALL BE DEMOLISHED AND REMOVED. REFER TO STRUCTURAL DRAWING S-102 FOR INFORMATION REGARDING PARTIAL CUTTING AND REMOVAL OF THE TOP OF EXISTING CONCRETE SUPPORT PIERS. VERTICAL REBAR MUST BE PRESERVED.

1 PENTHOUSE DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

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

Revisions:

[illegible]

Project Number:
2022-031A
Drawn By:
KE
Chck'd By:
JB
Scale:
1/8" = 1'-0'
Date:
01/14/2022

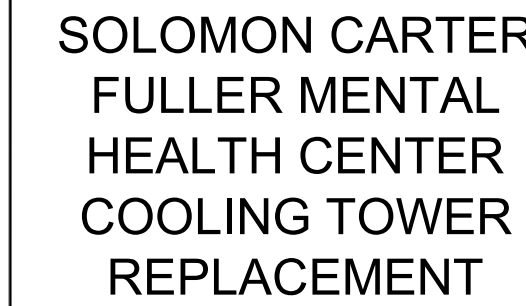
Drawing Title:

GENERAL PENTHOUSE DEMOLITION PLAN

Drawing Number:

D-200

Consultant:



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[illegible]

01/14/2022

MECHANICAL LEGEND,
NOTES, & ABBREVIATIONS:

M-000

SOLOMON CARTER
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COOLING TOWER
REPLACEMENT

Consultant:

[illegible]

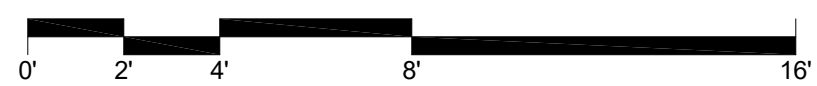
Project Number:
2022-031A
Drawn By:
KE
Chck'd By:
JB
Scale:
1/8" = 1'-0"
Date:
01/14/2022

MECHANICAL PENTHOUSE
DEMOLITION PLAN

MD-200



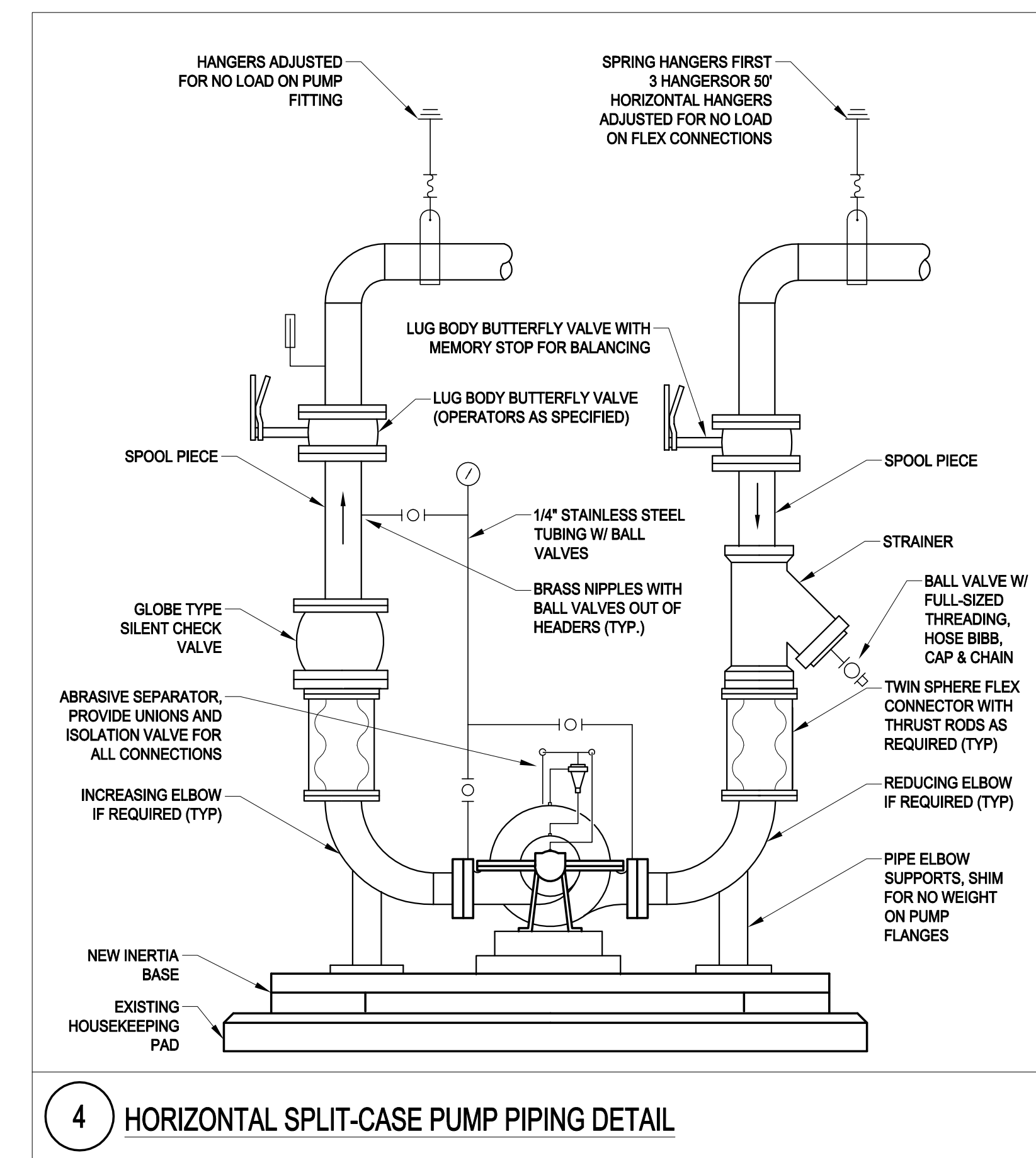
1. ALL EXTERIOR PIPING SHALL BE POLYPROPYLENE, HEAT TRACED, AND INSULATED UNLESS OTHERWISE NOTED. HEAT TRACE TO BE PROVIDED BY ELECTRICAL CONTRACTOR.
2. ALL EXTERIOR PIPING AND CONDUIT SHALL BE SUPPORTED FROM THE CONCRETE WALL OR FROM THE NEW COOLING TOWER STEEL DUNNAGE. EXTERIOR PIPING AND CONDUIT SHALL NOT BE SUPPORTED FROM THE ROOF TO ALLOW FOR A FUTURE ROOF INSTALLATION.



Drawing Number:

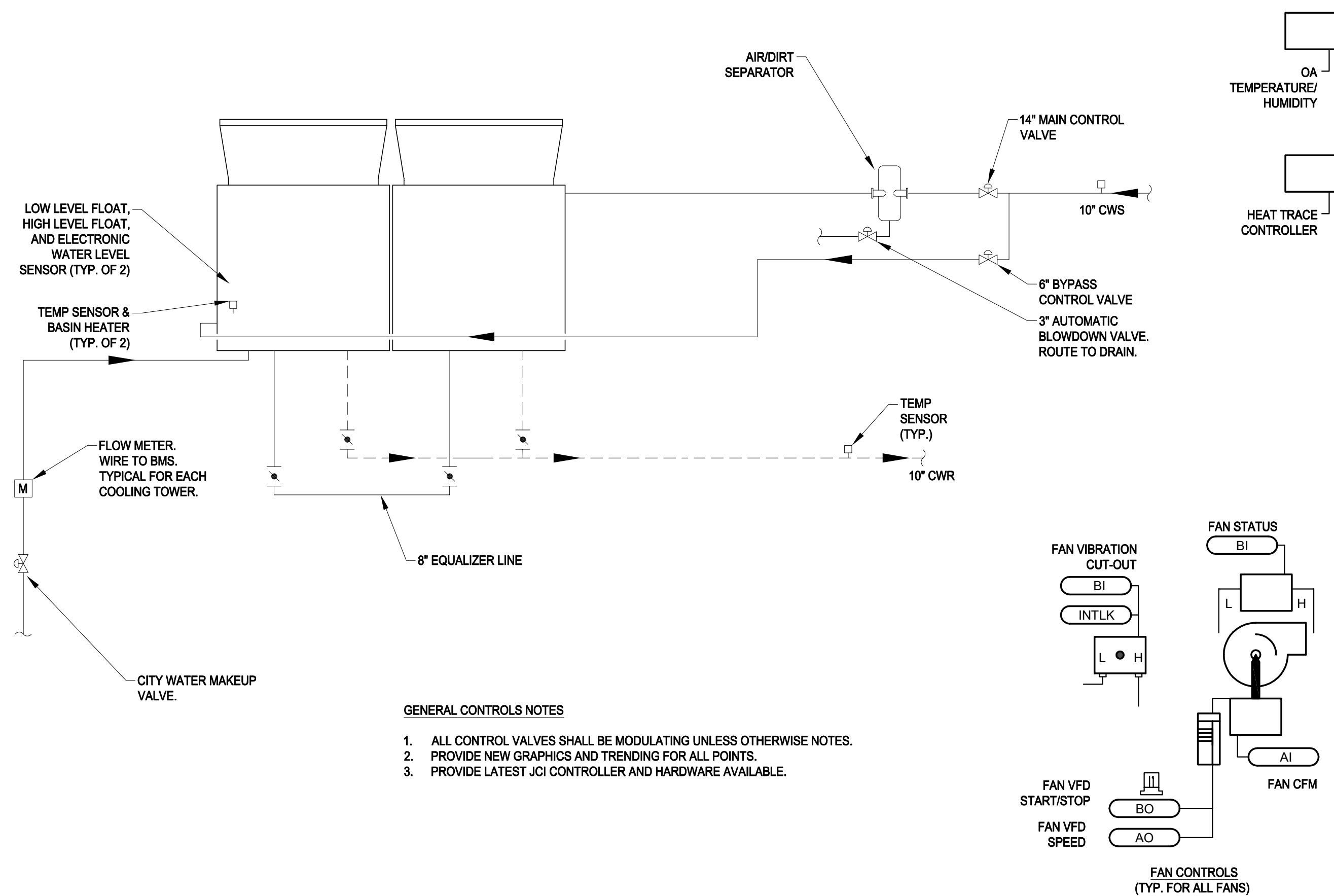
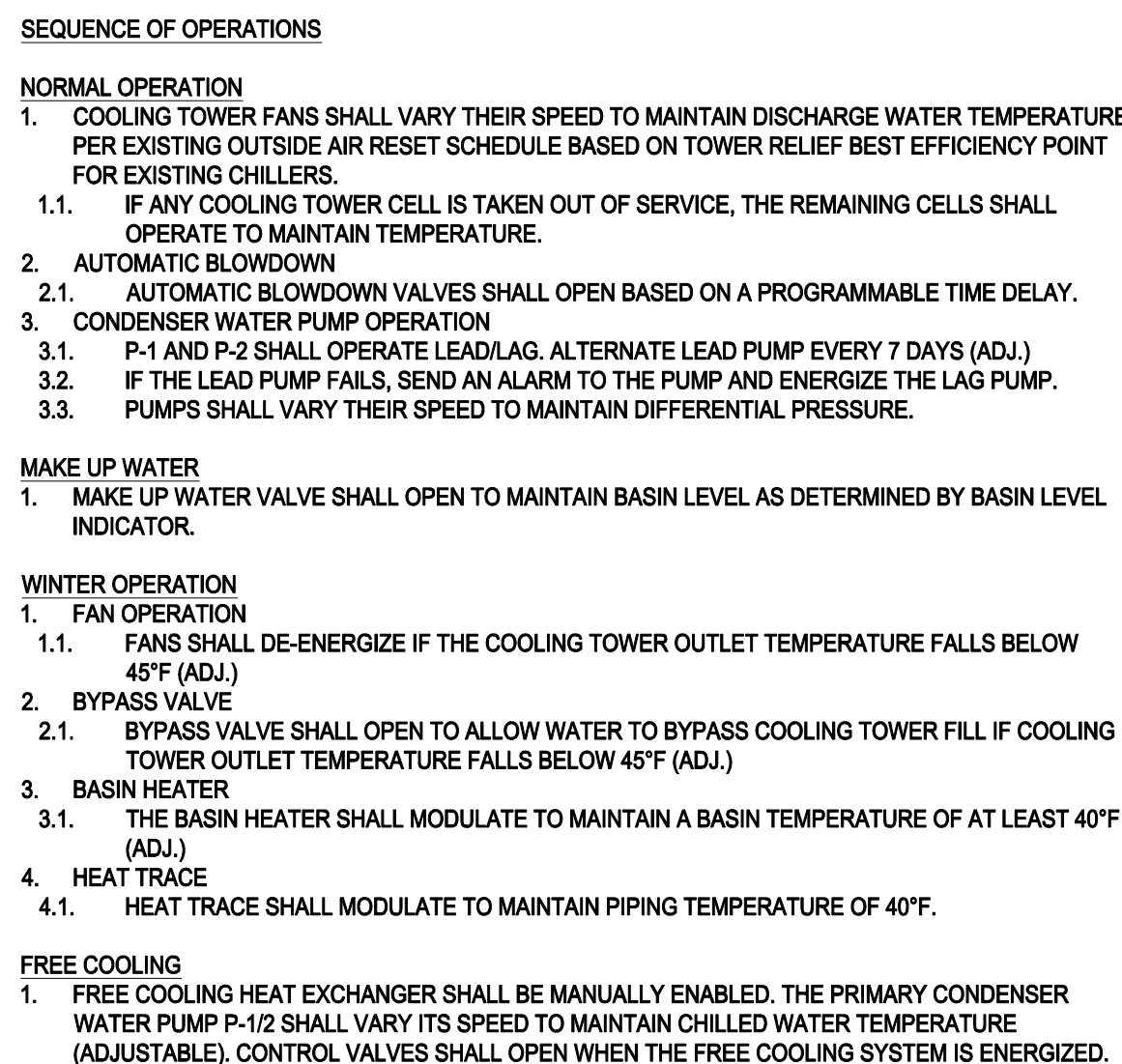
M-200

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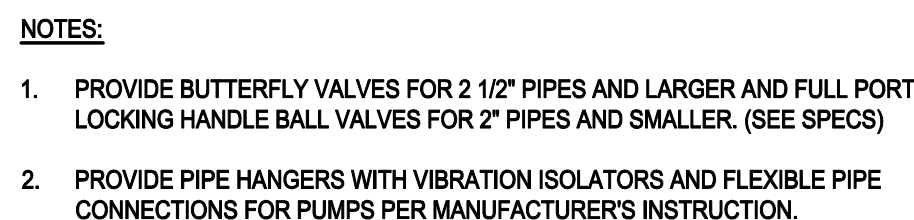


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COOLING TOWER
REPLACEMENT






















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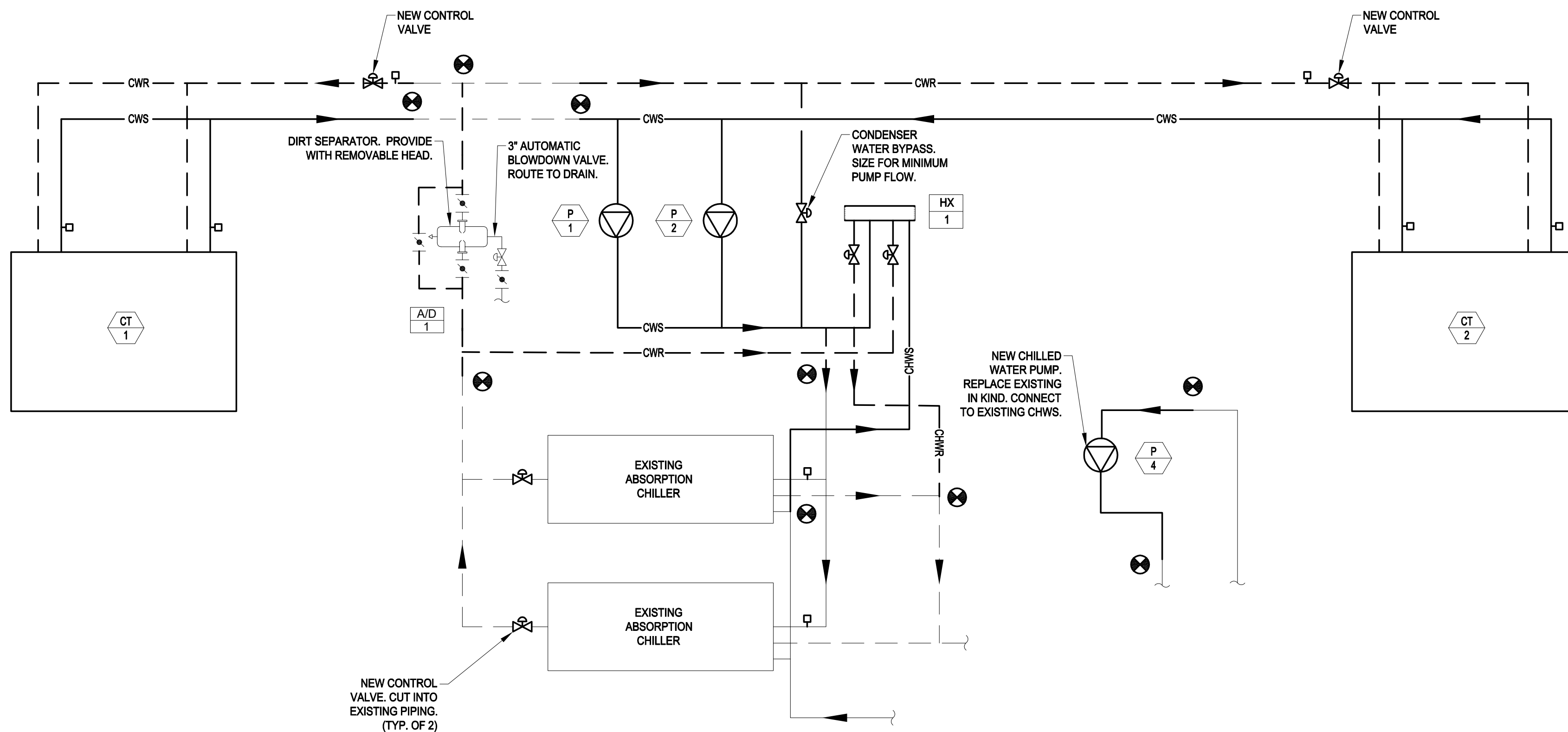


1



SYMBOLS

	GATE VALVE		GLOBE VALVE
	BALL VALVE		PRESSURE REDUCING VALVE
	BUTTERFLY VALVE		PRESSURE RELIEF VALVE
	2-WAY MODULATING CONTROL VALVE		THERMOMETER
	3-WAY MODULATING CONTROL VALVE		PRESSURE GAUGE
	CHECK VALVE		BACKFLOW PREVENTER
	UNION		PUMP
	STRAINER		DRAIN VALVE W/ CAP & CHAIN
	STRAINER W/ BLOWOFF VALVE		AUTOMATIC AIR VENT
	CIRCUIT SETTER		WATER METER
	TEMPERATURE SENSOR		



2)

[illegible]

Drawing 7

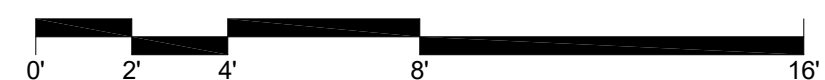
MECHANICAL DETAILS 2

M-601


M-700

SOLOMON CARTER
FULLER MENTAL
HEALTH CENTER
COOLING TOWER
REPLACEMENT

Consultant:



Project Number:
2022-031A
Drawn By:
XX
Chck'd By:
XX
Scale:
1/8" = 1'-0"
Date:
01/14/2022



Seal

Drawing Number:

ED-300

SOLOMON CARTER
FULLER MENTAL
HEALTH CENTER
COOLING TOWER
REPLACEMENT

Consultant:

[illegible]

Project Number: 2022-031A
 Drawn By: [Signature]
 Chck'd By: [Signature]
 Scale: 1/8" = 1'-0"
 Date: 01/14/2022

Seal

The seal is circular with a serrated edge. The outer ring contains the text "COMMONWEALTH OF MASSACHUSETTS" at the top and "REGISTERED PROFESSIONAL ENGINEER" at the bottom. The center of the seal contains the text "NICOLA D. FERZACCA III", "ELECTRICAL", and "No. 43208". A blue ink signature is written across the seal.

ELECTRICAL DEMOLITION
10TH FLOOR PLAN

ED-301



SOLOMON CARTER
FULLER MENTAL
HEALTH CENTER
COOLING TOWER
REPLACEMENT

Consultant:



Project Number: 2022-031A
 Drawn By: [Redacted]
 Chck'd By: [Redacted]
 Scale: 1/8" = 1'-0"
 Date: 01/14/2022

Seal: [Professional Engineer Seal for Nicola D. Ferzacca III, No. 43208, Registered Professional Engineer, Commonwealth of Massachusetts]

ELECTRICAL POWER
10TH FLOOR PLAN

Ξ-301





E-600