

# CITY OF PLATTSBURGH - DPW & HEO

## BUILDING HEATING SYSTEM

### 215 IDAHO AVENUE PLATTSBURGH, NY 12901

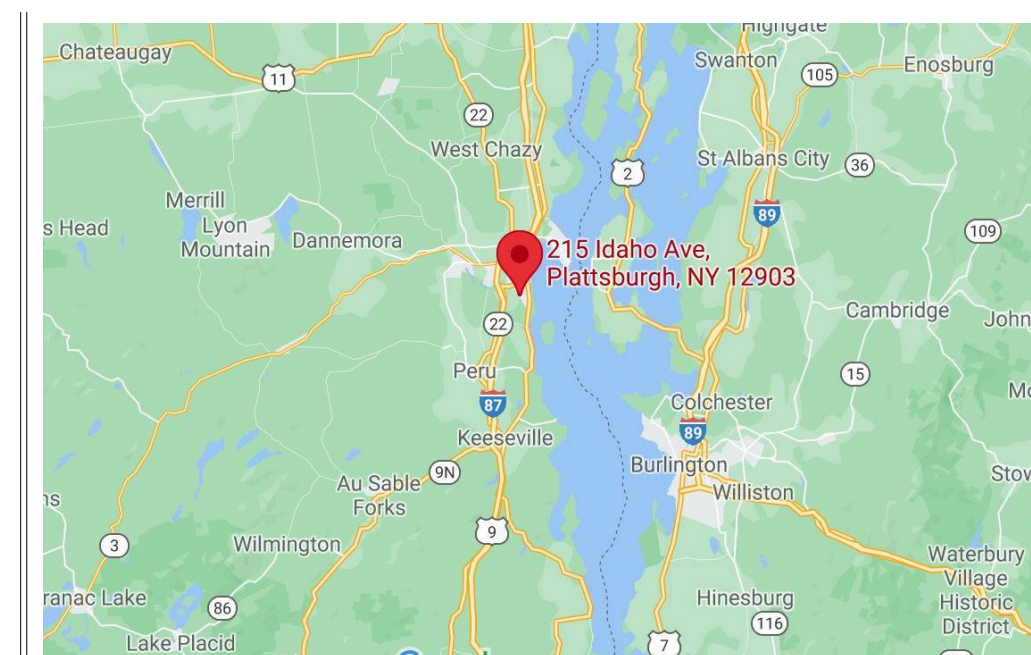


#### SHEET LIST

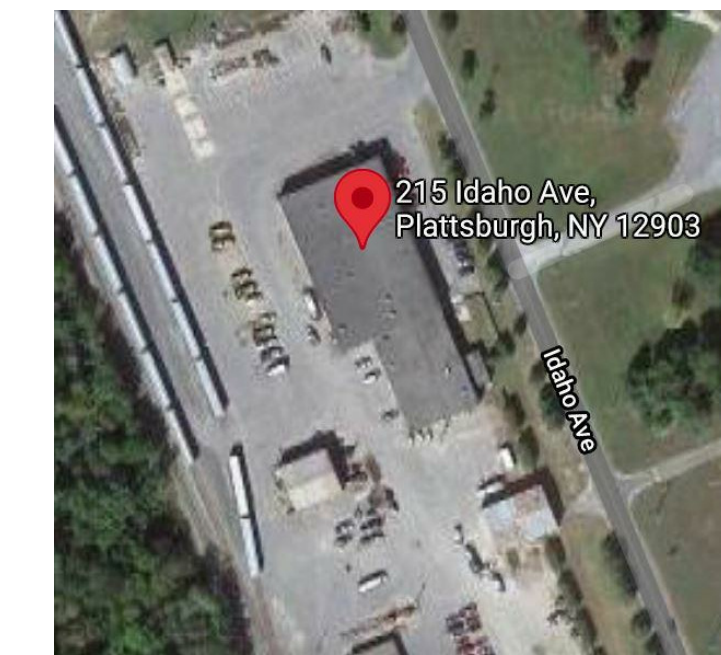
SHEET NUMBER	SHEET NAME
1. TITLE	
T001	TITLE SHEET
2. GENERAL	
G001	GENERAL NOTES
3. DPW MECHANICAL	
M001	DPW MECHANICAL NOTES & SCHEDULE
M100	OVERALL DPW FLOOR PLAN
M101	ENLARGED DPW FLOOR PLAN #1
M102	ENLARGED DPW FLOOR PLAN #2
M103	EXISTING DPW ENLARGED BOILER ROOM PLAN
M104	NEW DPW ENLARGED BOILER ROOM PLAN

SHEET NUMBER	SHEET NAME
4. HEO MECHANICAL	
M011	HEO MECHANICAL NOTES & SCHEDULE
M110	OVERALL HEO FLOOR PLAN
M111	ENLARGED HEO EXISTING/NEW UTILITY ROOM PLAN

#### LOCATION MAP



#### AERIAL VIEW



CONSTRUCTION DOCUMENT  
PHASE  
SERVICES 100%



#### TITLE SHEET

PROJECT NO. 21031  
DATE 06/23/2021  
DRAWN BY TSV  
CHECKED BY SEC

T001



ARCHITECTURAL & ENGINEERING  
DESIGN ASSOCIATES, P.C.  
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PLATTSBURGH, NY 12901  
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E: JAA@AEDAPC.COM

**PROJECT ABBREVIATIONS**

**NOTE:** EVERY EFFORT WILL BE MADE TO USE FULL WORDS INSTEAD OF ABBREVIATIONS  
**EXCEPTIONS:** WHERE SPACE REQUIREMENTS PROHIBIT IT OR WHERE STANDARD INDUSTRY ABBREVIATIONS ARE GENERALLY ACCEPTABLE SUBSTITUTES

&	AND	HW	HOT WATER
@	AT	HVAC	HEATING VENTILATION & AIR CONDITIONING
Ø	DIAMETER	ICF	INSULATED CONCRETE FORM
#	NUMBER	MAX	MAXIMUM
LB/LBS	POUND(S)	MC	MECHANICAL CONTRACTOR
1ST	FIRST	MECH	MECHANICAL
2ND	SECOND	MIN	MINIMUM
3RD	THIRD	MISC	MISCELLANEOUS
4TH	FOURTH	MLT	METAL
5TH	FIFTH	MRGWB	MOISTURE RESISTANT GYPSUM WALL BOARD
ACT	ACOUSTIC CEILING TILE	NIC	NOT IN CONTRACT
AFB	ABOVE FINISH FLOOR	NTS	NOT TO SCALE
BM	BENCH MARK	OC	ON CENTER
BO	BOTTOM OF	OSB	ORIENTED STRAND BOARD
CJ	CONTROL JOINT	PC	PLUMBING CONTRACTOR
CL	CENTERLINE	PLUMB	PLUMBING
CMU	CONCRETE MASONRY UNIT	PT	PRESSURE TREATED
CPT	CARPET	PSF	POUNDS PER SQUARE FOOT
CT	CERAMIC TILE	PSI	POUNDS PER SQUARE INCH
DEMO	DEMOLISH OR DEMOLITION	PVC	POLYVINYL CHLORIDE
DN	DOWN	RCP	REFLECTED CEILING PLAN
DWG	DRAWING	RM	ROOM
EA	EACH	RO	ROUGH OPENING
EC	ELECTRICAL CONTRACTOR	SIM	SIMILAR
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	SS	STAINLESS STEEL
ELEC	ELECTRICAL	STRUCT	STRUCTURAL
ELEV	ELEVATION	T&G	TONGUE AND GROOVE
EPDM	ETHYLENE PROPYLENE DIENE MONOMER	TO	TOP OF
EW	EACH WAY	TYP	TYPICAL
FD	FLOOR DRAIN	UNO	UNLESS NOTED OTHERWISE
FF	FINISH FLOOR	VIF	VERIFY IN FIELD
FRGWB	FIRE RATED GYPSUM WALL BOARD	W/	WITH
GA	GAGE/GAUGE	W/O	WITHOUT
GC	GENERAL CONTRACTOR	WD	WOOD
GWB	GYPSUM WALL BOARD	WWF	WELDED WIRE FABRIC
HM	HOLLOW METAL	WWM	WELDED WIRE MESH

**GENERAL NOTES**

- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AND REPORT DISCREPANCIES TO OWNER AND ARCHITECT / ENGINEER BEFORE PROCEEDING WITH THE WORK.
- ALL WORK DETAILED AND / OR SPECIFICALLY DENOTED ON THIS DRAWING SHALL BE BY GENERAL CONTRACTOR UNLESS OTHERWISE INDICATED. REFERENCE ALL DRAWINGS FOR ADDITIONAL SCOPE OF WORK REQUIREMENTS.
- CONTRACTORS SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO ANY CONSTRUCTION OR ORDER OF ANY CUSTOM MATERIALS. INCONSISTENCIES IN PLANS MUST BE REPORTED TO THE OWNER AND ARCHITECT / ENGINEER.
- WHILE EVERY ATTEMPT HAS BEEN MADE IN THE PREPARATION OF THIS PLAN TO AVOID MISTAKES, THE MAKER CANNOT GUARANTEE AGAINST HUMAN ERROR. THE CONTRACTOR ON THE JOB MUST CHECK ALL DIMENSIONS & DETAILS AND BE RESPONSIBLE FOR SAME.
- EXTERIOR DIMENSIONS ARE TO FACE OF STUDS. INTERIOR DIMENSIONS ARE TAKEN FROM FACE OF STUDS.
- CONFORM TO ALL DIMENSIONS INDICATED IN PREFERENCE TO SCALED DIMENSIONS FROM THE BLUEPRINT.
- ALL WOOD IN DIRECT CONTACT WITH CONCRETE OR EXPOSED TO WEATHER TO BE PRESSURE TREATED.
- INTERIOR FLOOR AND WALL FINISHES SHALL BE SELECTED BY OWNER.
- PROVIDE MOISTURE RESISTANT GYPSUM BOARD IN ALL TOILET, BATH, POWDER & LAUNDRY ROOMS.
- SEAL ALL PENETRATIONS THRU EXTERIOR, INTERIOR, FOUNDATION, FLOOR & FIRE RATED WALL/FLOOR & CEILING ASSEMBLIES AS REQUIRED W/ APPROVED MATERIALS. CONFORM TO U.L. STANDARDS FOR FIRE RATED ASSEMBLIES.

**GENERAL NOTES**

	GRADE
	UNDISTURBED EARTH
	PAVING
	GRAVEL
	SAND
	VAPOR BARRIER
	FIBERGLASS INSULATION
	RIGID INSULATION
	SPRAY FOAM INSULATION
	PLYWOOD
	GYPSUM BOARD
	PARTICLE BOARD
	WOOD BLOCKING OR FRAMING
	CONCRETE
	CONCRETE MASONRY UNIT
	BRICK
	STONE
	STEEL

**DRAWING SYMBOLS**

	BEYOND
	CALLOUT BOUNDARY
	CENTERLINE
	CONTINUOUS LINE
	DEMOLISHED
	FLASHING
	GRID LINE
	HIDDEN
	MATCHLINE
	OVERHEAD
	UNDERLAYMENT
	WEATHER BARRIER

**MATERIAL SYMBOLS**

	GRADE
	UNDISTURBED EARTH
	PAVING
	GRAVEL
	SAND
	VAPOR BARRIER
	FIBERGLASS INSULATION
	RIGID INSULATION
	SPRAY FOAM INSULATION
	PLYWOOD
	GYPSUM BOARD
	PARTICLE BOARD
	WOOD BLOCKING OR FRAMING
	CONCRETE
	CONCRETE MASONRY UNIT
	BRICK
	STONE
	STEEL

**DRAWING SYMBOLS**

**SHEET/DRAWING NUMBERS**

DISCIPLINE/SERIES  
A = ARCHITECTURAL  
C = CIVIL  
D = DEMOLITION  
E = ELECTRICAL  
ID = INTERIOR DESIGN  
L = LANDSCAPE  
LS = LIFE SAFETY  
M = MECHANICAL  
P = PLUMBING  
Q = EQUIPMENT  
S = STRUCTURAL

**A211**

SHEET NUMBER  
SHEET TYPE SUB SERIES  
BUILDING SUBSET  
DISCIPLINE / SERIES

**1**

GRIDS

**TITLE**

VIEW TITLE  
DETAIL / SHEET SCALE  
VIEW LOCATION  
VIEW ORIGIN

**PLAN, ELEVATION, SECTION OR DETAIL TITLE**

**NORTH**

**NORTH ARROW**

**RUN**

**RISE**

**SLOPE TRIANGLE**

**GRAPHIC SCALE**

**ELEVATION REFERENCE**

**ELEVATION REFERENCE, MULTIPLE**

**PHOTO ELEVATION REFERENCE**

**PHOTO ELEVATION REFERENCE, MULTIPLE**

**SECTION REFERENCE**

**WALL SECTION REFERENCE**

**ENLARGED PLAN OR DETAIL REFERENCE**

**DETAIL REFERENCE**

**ROOM NAME**

**ROOM NAME & ROOM NUMBER**

**DOOR OR OPENING TAG**

**WINDOW, LOUVER OR CURTAINWALL TYPE**

**SEE PARTITION SHEET FOR TAG INFO. PARTITION TYPE**

**HORIZONTAL ASSEMBLIES TYPE**

**KEYNOTES**

**REVISION IDENTIFICATION**

**CEILING TAG**

**ALIGN**

**ALIGN FACE OF OBJECTS/SURFACES**

**WALL CABINET**  
WLS## = WALL LAZY SUSAN CABINET  
B## = BASE CABINET  
BLS## = BASE LAZY SUSAN CABINET  
DB## = DRAWER BASE CABINET  
CB## = CORNER BASE CABINET  
SB## = SINK BASE CABINET  
CW## = CORNER WALL CABINET  
W### = RANGE & REF. WALL CABINETS  
(#### = WIDTH & HEIGHT)

**CABINET LEGEND**

**MATCHLINE SEE A/101**

**MATCHLINE REFERENCE**

**SPOT ELEVATION**

**FLOOR ELEVATION**

**EXISTING WALL**

**DEMOLISHED WALL**

**NEW WALL**

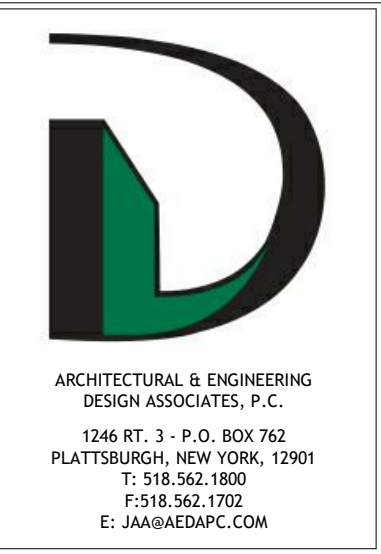
**EXISTING DOOR TO REMAIN**

**DEMOLISHED DOOR**

**NEW DOOR**

**LEVEL NAME**

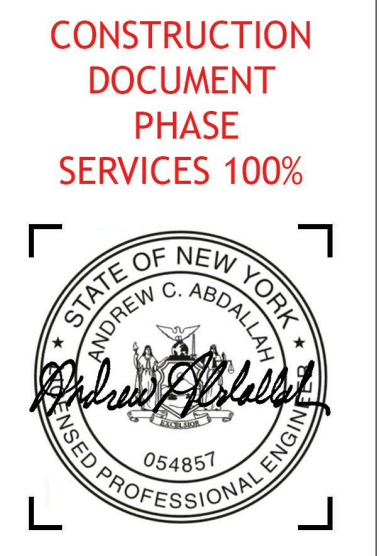
**ELEVATION**



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**CITY OF PLATTSBURGH - DPW & HEO**  
**BUILDING HEATING SYSTEM**

215 IDAHO AVENUE PLATTSBURGH, NY 12901



**REVISIONS**

#	BY	DATE

**GENERAL NOTES**

PROJECT NO. 21031  
DATE 06/23/2021  
DRAWN BY JCB  
CHECKED BY SEC

**G001**

MECHANICAL EQUIPMENT SCHEDULE

Table with columns: Mark, Manufacturer, Model, Description, Comments. Contains 12 items including ASME air/dirt separator, CREST Condensing Boilers, Grundfos pumps, Navien heater, and Taco recirculation pump.

EQUIPMENT BY OWNER NOTES

- TO EXPEDITE EQUIPMENT AVAILABILITY TIMEFRAME, ALL EQUIPMENT IDENTIFIED ABOVE IN THE MECHANICAL EQUIPMENT SCHEDULE WILL BE PROVIDED BY OWNER. COORDINATION BETWEEN F.W. WEBB, OWNER/ENGINEER, AND CONTRACTOR CAN BE PERFORMED THROUGHOUT PROJECT TO MAINTAIN WORK SCHEDULE.

GENERAL MECHANICAL NOTES

- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AND REPORT ANY DISCREPANCIES TO OWNER/ENGINEER BEFORE PROCEEDING WITH THE WORK.
ALL WORK DETAILED AND/OR SPECIFICALLY DENOTED ON THIS DRAWING SHALL BE BY MECHANICAL CONTRACTOR (M.C.) UNLESS OTHERWISE INDICATED, REFERENCE ALL DRAWINGS FOR ADDITIONAL SCOPE OF WORK REQUIREMENTS.

SYSTEM CONTROL NOTES

- CONTROL REQUIREMENTS:
1. BOILER SYSTEM AND HWP-1 & HWP-2 CONTROLS SHALL BE INTEGRATED INTO CITY OF PLATTSBURGH DEPARTMENT OF PUBLIC WORKS EXISTING CPU INTERFACE SYSTEM AS DEVELOPED BY CORE CLIMATE SYSTEMS. PROVIDE ALL INTERFACES, SENSORS, CONTROL WIRING, ETC. TO CREATE A COMPLETE FUNCTIONAL SYSTEM MEETING THE FOLLOWING CONTROL PARAMETERS.

MECHANICAL NOTES - DEMOLITION

- PLACE MARKERS TO INDICATE LOCATION OF DISCONNECTED SERVICES. IDENTIFY SERVICE LINES AND CAPPING LOCATIONS ON PROJECT RECORD DOCUMENTS.
EXCEPT WHERE NOTED OTHERWISE, LEGALLY REMOVE ALL DEMOLISHED MATERIALS OFF SITE IMMEDIATELY INCLUDING GLYCOL CONTAINING HYDRONIC HEATING FLUID.

MEZZANINE NOTES

- MEZZANINE "A":
1. EXISTING 4" DIA. HWS & HWR SERVING MEZZANINE WITH INDIVIDUAL CONNECTIONS TO THE FOLLOWING EQUIPMENT. APPROXIMATE PIPING LENGTHS SHOWN BELOW FOR ESTIMATING PURPOSES ONLY, TO BE VERIFIED IN FIELD.

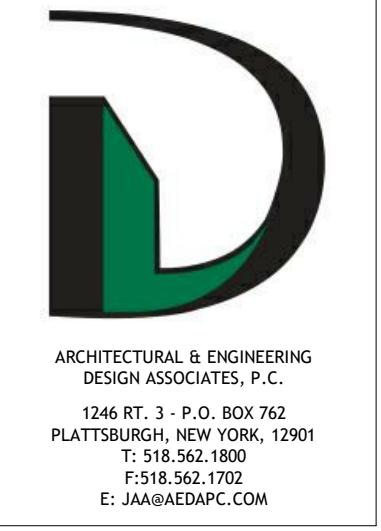
MECHANICAL SCOPE OF WORK SUMMARY

- DEMOLITION WORK:
1. DRAIN ALL GLYCOL CONTAINING HYDRONIC HEATING FLUIDS FROM CIRCULATION SYSTEM, FLUSH SYSTEM AND CLEAN WITH TRI-SODIUM PHOSPHATE AT A RATIO OF 1 LB PER 50 GALLONS OF CLEAN WATER BY FILLING, VENTING AIR AND CIRCULATING THE CLEANING SOLUTION FOR 3 HOURS.

- NEW WORK:
1. INSTALL NEW BOILERS & CIRCULATION SYSTEMS AS LISTED IN THE MECHANICAL EQUIPMENT SCHEDULE, OR EQUIVALENT. INCLUDE ALL NECESSARY APPURTENANCES IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION REQUIREMENTS, INCLUDING BUT NOT LIMITED TO CONDENSATE DRAINAGE, AIR RELEASES, TEMPERATURE AND PRESSURE GAUGES, CONTROL SENSORS, VENTING, ETC.

MISCELLANEOUS NOTES

- ALL MECHANICAL WORK TO CONFORM TO APPLICABLE TRADE STANDARDS AND 2020 MECHANICAL CODE OF NEW YORK STATE.
PROVIDE SUBMITTALS AND SHOP DRAWINGS FOR APPROVAL FOR ALL EQUIPMENT, SUPPLIES, CONTROLS, ETC. FOR COMPLETE HVAC SCOPE OF WORK.



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CITY OF PLATTSBURGH - DPW & HEO
BUILDING HEATING SYSTEM
215 IDAHO AVENUE PLATTSBURGH, NY 12901

CONSTRUCTION DOCUMENT
PHASE
SERVICES 100%



Table with columns: #, BY, DATE. Revisions section.

DPW
MECHANICAL
NOTES &
SCHEDULE

PROJECT NO. 21031
DATE 06/23/2021
DRAWN BY JCB
CHECKED BY SEC

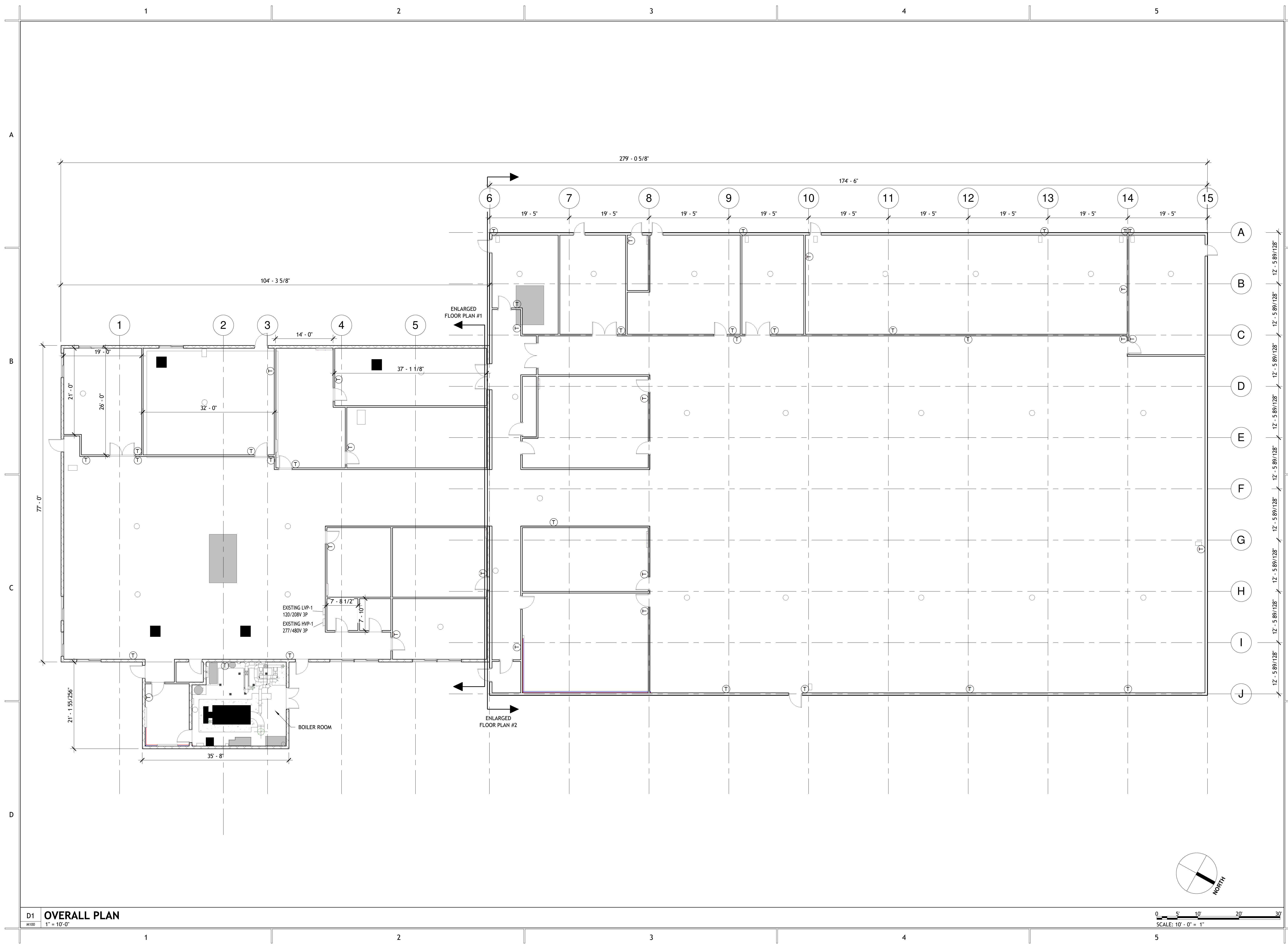
M001

REVISIONS		
#	BY	DATE

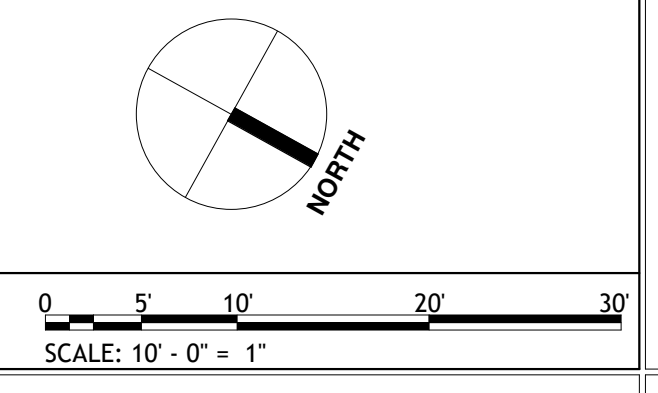
OVERALL DPW FLOOR PLAN

PROJECT NO. 21031  
DATE 06/23/2021  
DRAWN BY TSV  
CHECKED BY SEC

M100

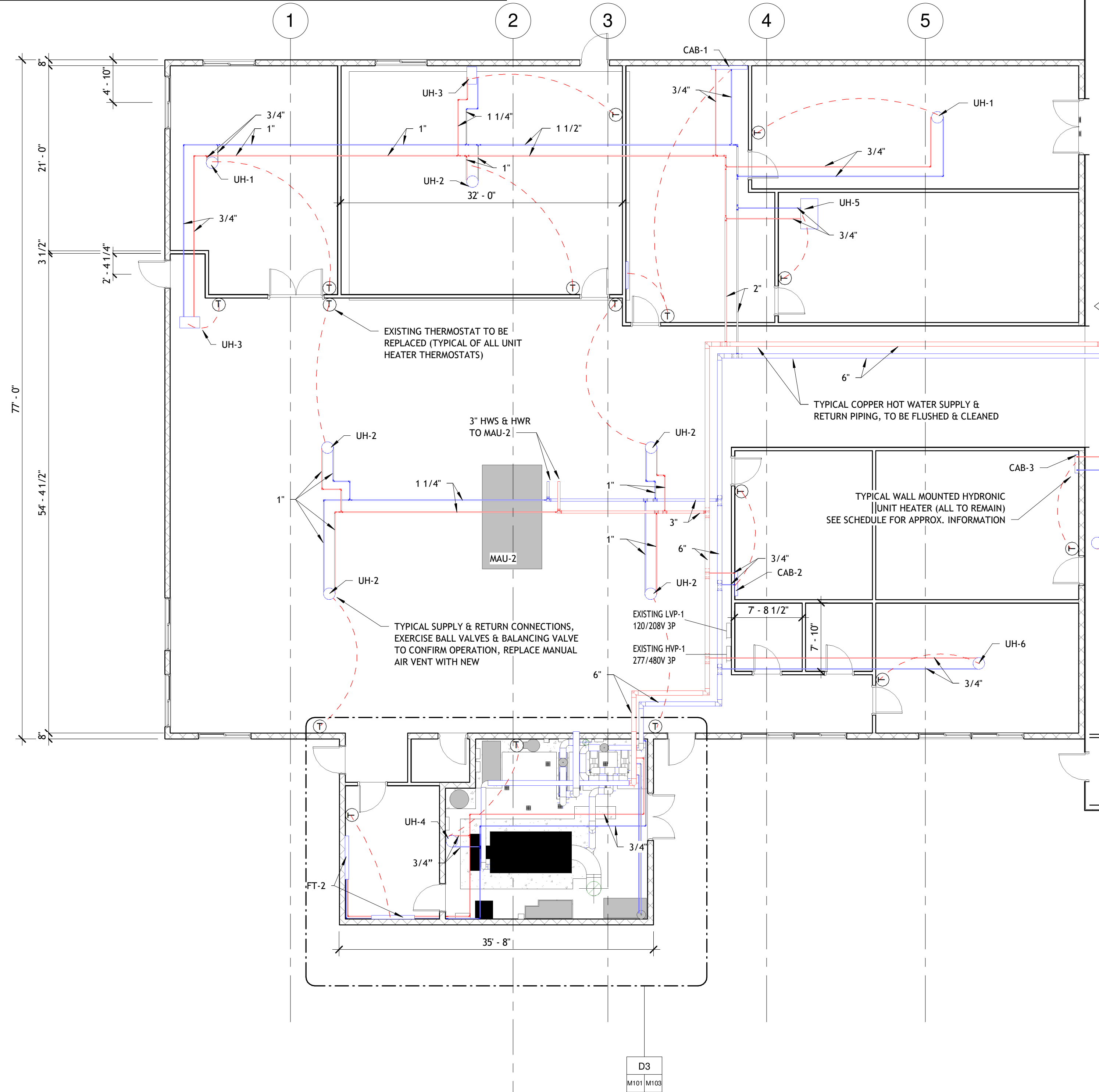


D1 OVERALL PLAN  
1" = 10'-0"



# HOT WATER UNIT HEATER SCHEDULE

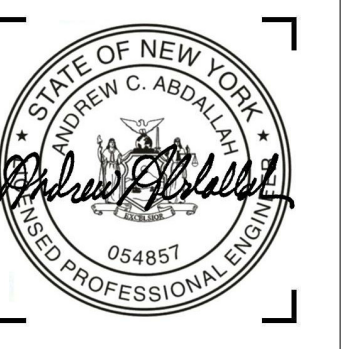
PLAN CODE	CAP MBH	EWT	LWT	GPM	UNIT TYPE	WP DROP	CFM	ELECTRICAL VOLT PHASE	MOTOR H.P.	FAN RPM	MODEL #
UH-1	26.6	180	162	3.1	VERT.	0.3	1190	110	1/30	1050	V-59L
UH-2	37.7	180	162	4.4	VERT.	0.4	1740	110	1/15	1050	V-78L
UH-3	32.5	180	162	3.8	VERT.	0.5	1170	110	1/12	1050	HS-63L
UH-4	19.7	180	162	2.3	VERT.	0.4	960	110	1/30	1050	V-42L
UH-5	19.4	180	162	1.1	VERT.	0.4	364	110	16MHP	1050	HS-18L
UH-6	19.7	180	162	2.3	VERT.	0.5	960	110	1/30	1050	V-42L
FT-1	5.5										(4) 2 LF FIN-TUBE SECTIONS
FT-2	10.4										(1) 7 LF & (1) 8 LF FIN-TUBE SECTIONS
CAB-1	9.4										CABINET
CAB-2	4.6										CABINET
CAB-3	5.8										CABINET
CAB-4	3.7										CABINET (3 LOCATIONS)



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CITY OF PLATTSBURGH - DPW & HEO  
BUILDING HEATING SYSTEM

CONSTRUCTION DOCUMENT  
PHASE SERVICES 100%



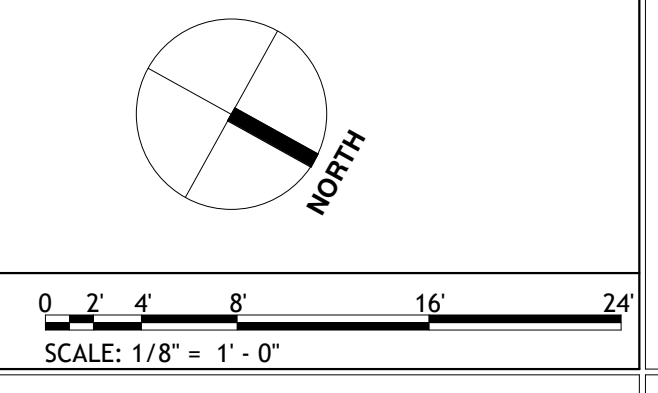
REVISIONS		
#	BY	DATE

ENLARGED  
DPW FLOOR  
PLAN #1

PROJECT NO. 21031  
DATE 06/23/2021  
DRAWN BY TSV  
CHECKED BY SEC

M101

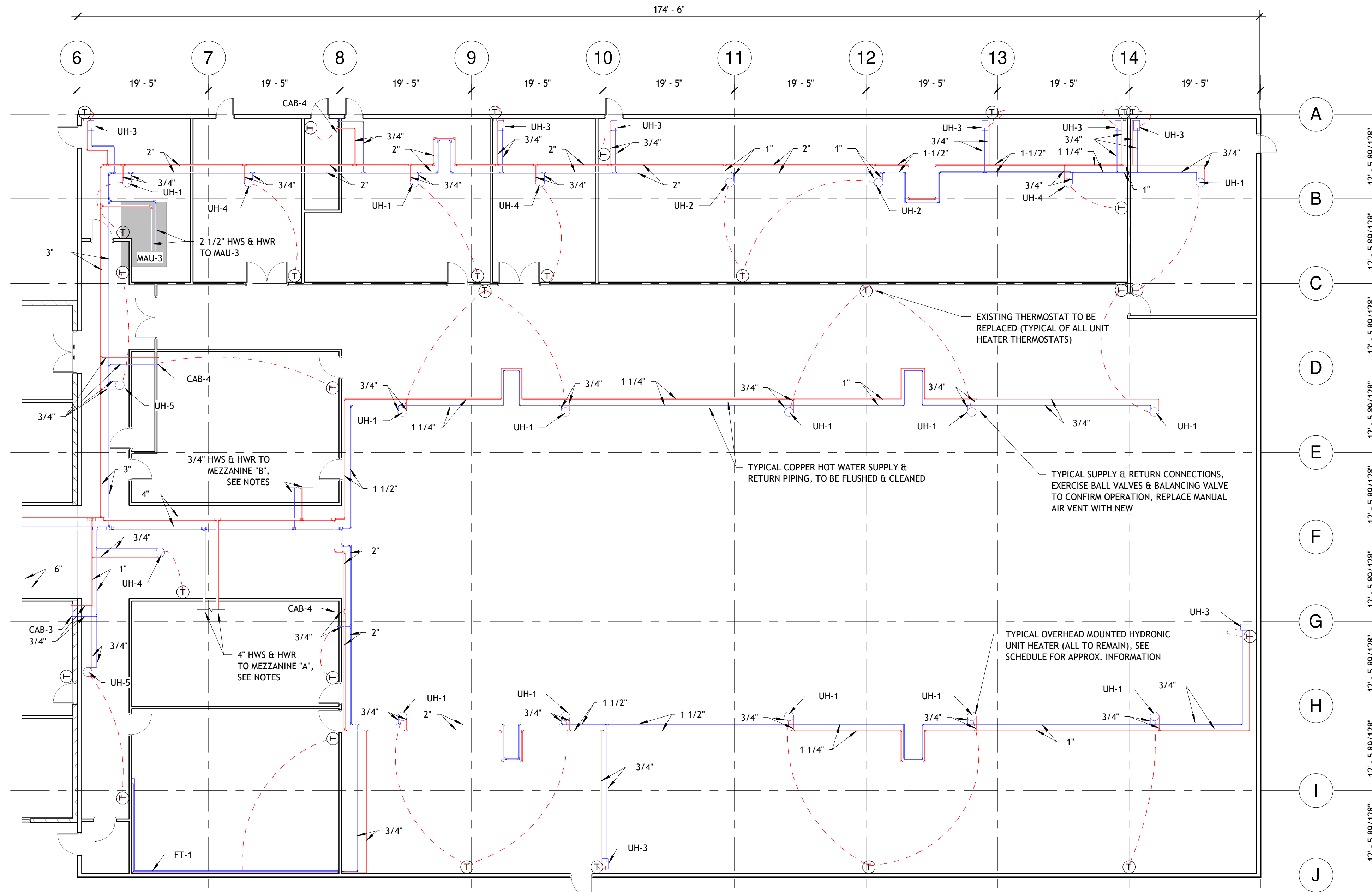
D1 ENLARGED FLOOR PLAN  
M101 1/8" = 1'-0"



6/21/2021 10:09:07 AM

# HOT WATER UNIT HEATER SCHEDULE

PLAN CODE	CAP MBH	EWT	LWT	GPM	UNIT TYPE	WP DROP	CFM	ELECTRICAL VOLT PHASE	MOTOR H.P.	FAN RPM	MODEL #
UH-1	26.6	180	162	3.1	VERT.	0.3	1190	110	1/30	1050	V-59L
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UH-3	32.5	180	162	3.8	VERT.	0.5	1170	110	1/12	1050	HS-63L
UH-4	19.7	180	162	2.3	VERT.	0.4	960	110	1/30	1050	V-42L
UH-5	19.4	180	162	1.1	VERT.	0.4	364	110	16MHP	1050	HS-18L
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FT-1	5.5										(4) 2 LF FIN-TUBE SECTIONS
FT-2	10.4										(1) 7 LF & (1) 8 LF FIN-TUBE SECTIONS
CAB-1	9.4										CABINET
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CAB-3	5.8										CABINET
CAB-4	3.7										CABINET (3 LOCATIONS)



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 BUILDING HEATING SYSTEM

215 IDAHO AVENUE PLATTSBURGH, NY 12901

CONSTRUCTION DOCUMENT  
 PHASE SERVICES 100%

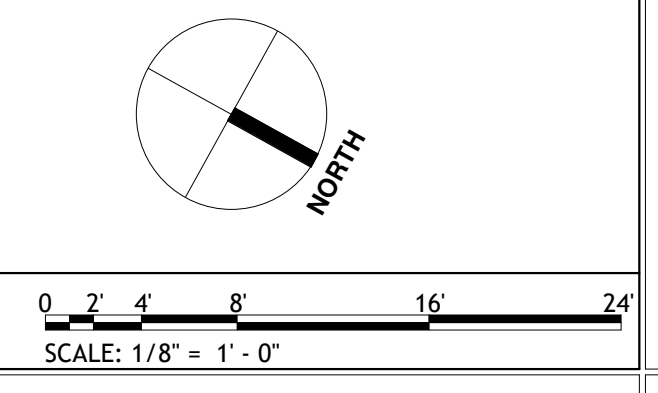
REVISIONS		
#	BY	DATE

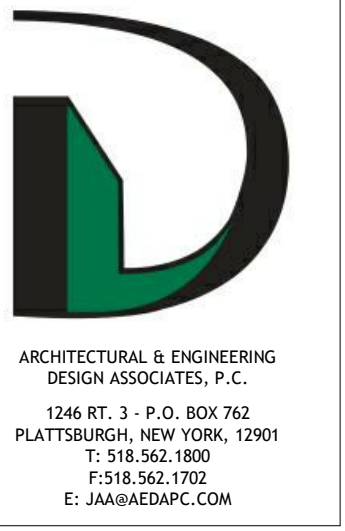
ENLARGED DPW FLOOR PLAN #2

PROJECT NO. 21031  
 DATE 06/23/2021  
 DRAWN BY TSV  
 CHECKED BY SEC

M102

D1 ENLARGED FLOOR PLAN 2  
 1" = 10'-0"





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CITY OF PLATTSBURGH - DPW & HEO  
 BUILDING HEATING SYSTEM  
 215 IDAHO AVENUE PLATTSBURGH, NY 12001

CONSTRUCTION DOCUMENT  
 PHASE SERVICES 100%  
 STATE OF NEW YORK  
 J. ANDREW C. ABADALE  
 LICENSED PROFESSIONAL ENGINEER  
 054857

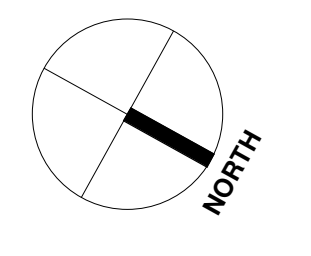
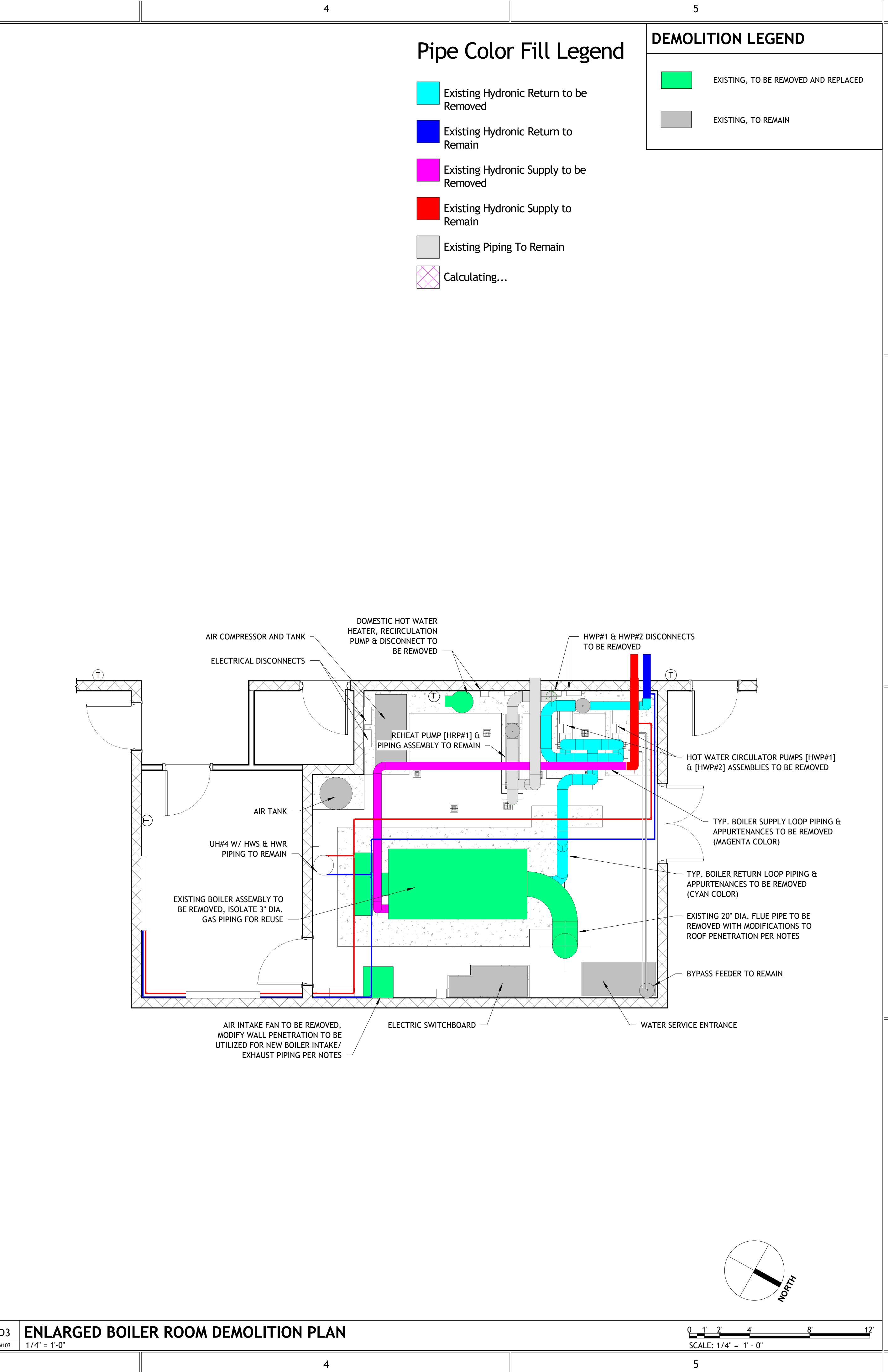
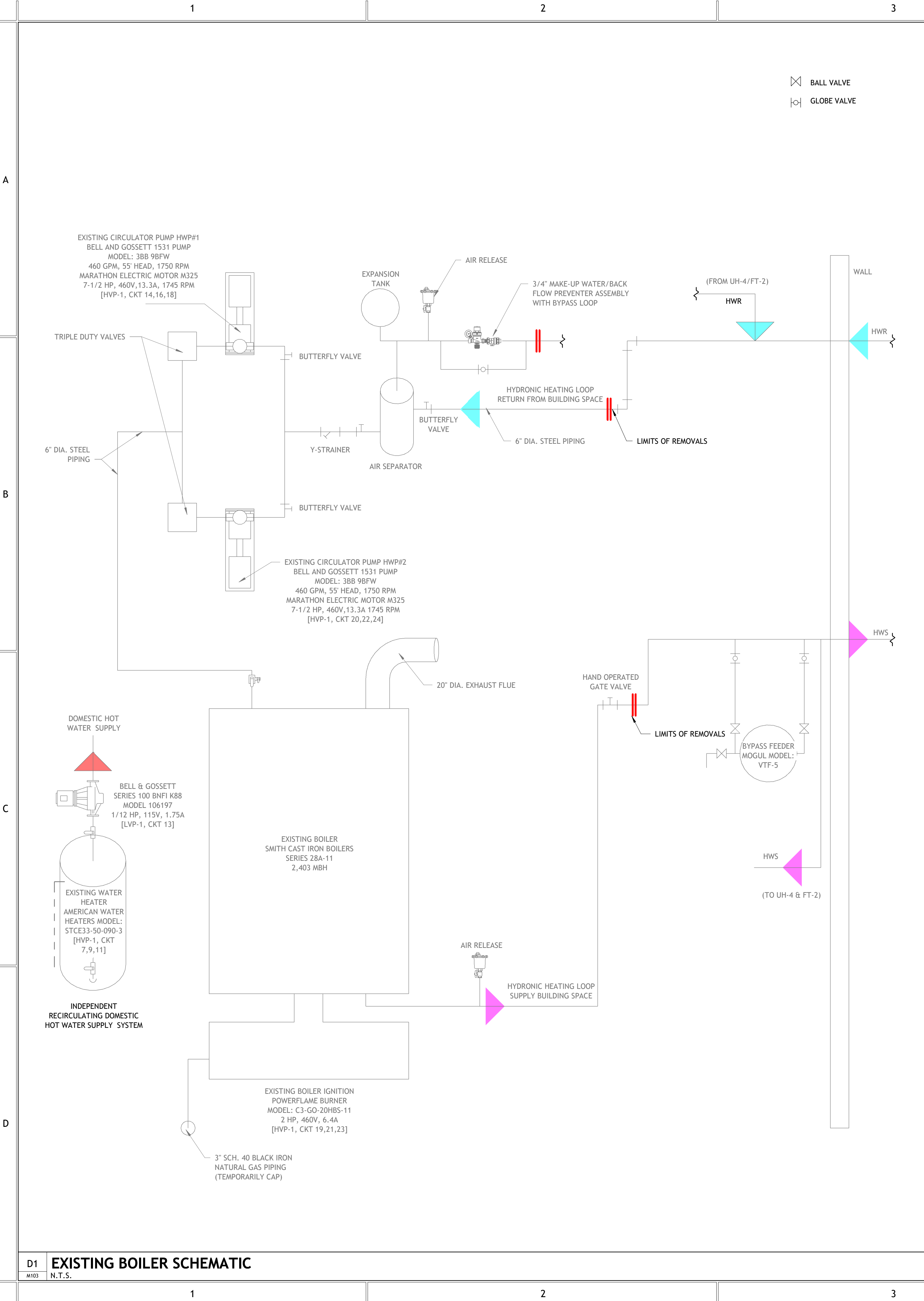
REVISIONS		
#	BY	DATE

EXISTING DPW ENLARGED BOILER ROOM PLAN

PROJECT NO. 21031  
 DATE 06/23/2021  
 DRAWN BY JCB  
 CHECKED BY SEC

M103

6/21/2021 10:09:12 AM



0' 1' 2' 4' 8' 12'  
 SCALE: 1/4" = 1'-0"

### Pipe Color Fill Legend

- Existing Hydronic Return to be Removed
- Existing Hydronic Return to Remain
- Existing Hydronic Supply to be Removed
- Existing Hydronic Supply to Remain
- Existing Piping To Remain
- Calculating...

### DEMOLITION LEGEND

- EXISTING, TO BE REMOVED AND REPLACED
- EXISTING, TO REMAIN

⊗ BALL VALVE  
 ⊕ GLOBE VALVE

D1 EXISTING BOILER SCHEMATIC  
 M103 N.T.S.

D3 ENLARGED BOILER ROOM DEMOLITION PLAN  
 M103 1/4" = 1'-0"

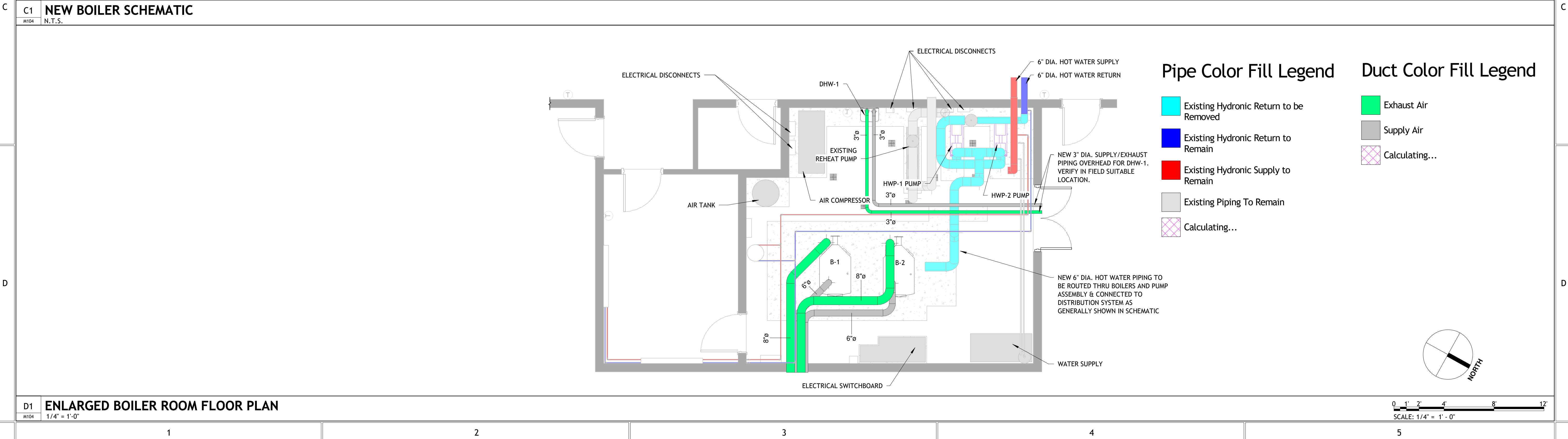
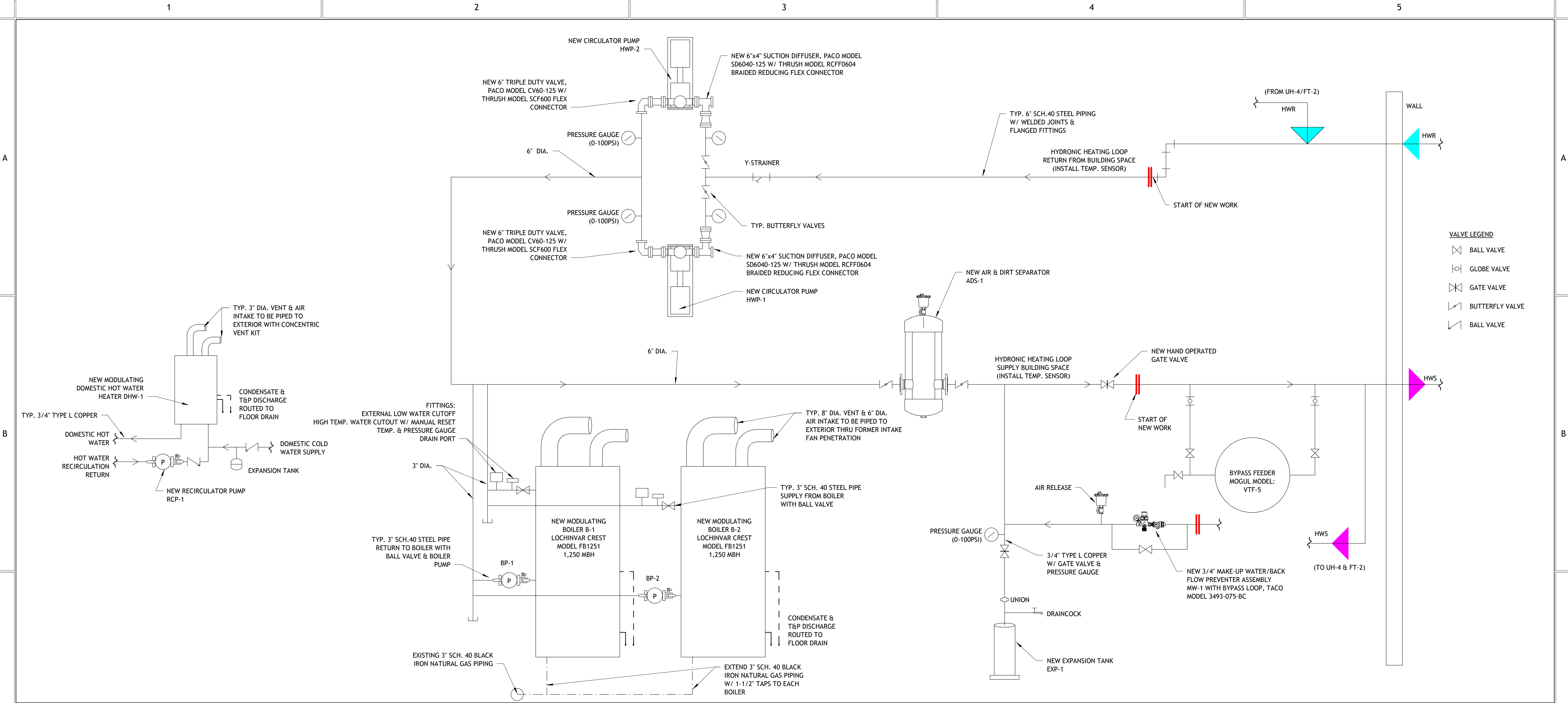
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NEW DPW ENLARGED BOILER ROOM PLAN

PROJECT NO. 21031  
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M104

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MECHANICAL EQUIPMENT SCHEDULE

Table with 5 columns: Mark, Manufacturer, Model, Description, Comments. Rows include ADS-2, B-3, BF-1, BP-3, EXP-2, HWP-3, HWP-4.

EQUIPMENT BY OWNER NOTES

- 1. TO EXPEDITE EQUIPMENT AVAILABILITY TIMEFRAME, ALL EQUIPMENT IDENTIFIED ABOVE IN THE MECHANICAL EQUIPMENT SCHEDULE WILL BE PROVIDED BY OWNER. COORDINATION BETWEEN F.W. WEBB, OWNER/ENGINEER, AND CONTRACTOR CAN BE PERFORMED THROUGHOUT PROJECT TO MAINTAIN WORK SCHEDULE.

GENERAL MECHANICAL NOTES

- 1. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AND REPORT ANY DISCREPANCIES TO OWNER/ENGINEER BEFORE PROCEEDING WITH THE WORK.
- 2. ALL WORK DETAILED AND/OR SPECIFICALLY DENOTED ON THIS DRAWING SHALL BE BY MECHANICAL CONTRACTOR (M.C.) UNLESS OTHERWISE INDICATED, REFERENCE ALL DRAWINGS FOR ADDITIONAL SCOPE OF WORK REQUIREMENTS.

SYSTEM CONTROL NOTES

- CONTROL REQUIREMENTS:
1. BOILER SYSTEM AND HWP-3 & HWP-4 CONTROLS SHALL BE INTEGRATED INTO CITY OF PLATTSBURGH DEPARTMENT OF PUBLIC WORKS EXISTING CPU INTERFACE SYSTEM AS DEVELOPED BY CORE CLIMATE SYSTEMS.

MECHANICAL NOTES - DEMOLITION

- 1. PLACE MARKERS TO INDICATE LOCATION OF DISCONNECTED SERVICES. IDENTIFY SERVICE LINES AND CAPPING LOCATIONS ON PROJECT RECORD DOCUMENTS.
- 2. EXCEPT WHERE NOTED OTHERWISE, LEGALLY REMOVE ALL DEMOLISHED MATERIALS OFF SITE IMMEDIATELY INCLUDING GLYCOL CONTAINING HYDRONIC HEATING FLUID.

MECHANICAL SCOPE OF WORK SUMMARY

DEMOLITION WORK:

- 1. DRAIN ALL GLYCOL CONTAINING HYDRONIC HEATING FLUIDS FROM CIRCULATION SYSTEM, FLUSH SYSTEM AND CLEAN WITH TRI-SODIUM PHOSPHATE AT A RATIO OF 1 LB PER 50 GALLONS OF CLEAN WATER BY FILLING, VENTING AIR AND CIRCULATING THE CLEANING SOLUTION FOR 3 HOURS.
- 2. ISOLATE EXISTING BOILER ASSEMBLY, CIRCULATOR PUMP ASSEMBLIES FROM THE EXISTING ELECTRICAL & FUEL OIL SYSTEMS, AND CHIMNEY.

NEW WORK:

- 1. INSTALL NEW BOILERS & CIRCULATION SYSTEMS AS LISTED IN THE MECHANICAL EQUIPMENT SCHEDULE. OR EQUIVALENT. INCLUDE ALL NECESSARY APPURTENANCES IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION REQUIREMENTS, INCLUDING BUT NOT LIMITED TO CONDENSATE DRAINAGE, AIR RELEASES, TEMPERATURE AND PRESSURE GAUGES, CONTROL SENSORS, VENTING, ETC.
- 2. INSTALL BOILER AND PUMP CONTROLS AND INTEGRATE INTO OWNER'S REMOTE MONITORING/CONTROL INTERFACE, SEE SYSTEM CONTROL NOTES.

MISCELLANEOUS NOTES

- 1. ALL MECHANICAL WORK TO CONFORM TO APPLICABLE TRADE STANDARDS AND 2020 MECHANICAL CODE OF NEW YORK STATE.
- 2. PROVIDE SUBMITTALS AND SHOP DRAWINGS FOR APPROVAL FOR ALL EQUIPMENT, SUPPLIES, CONTROLS, ETC. FOR COMPLETE HVAC SCOPE OF WORK.



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Table with 3 columns: #, BY, DATE. Header: REVISIONS.

HEO MECHANICAL NOTES & SCHEDULE

PROJECT NO. 21031
DATE 06/23/2021
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M011

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B

C

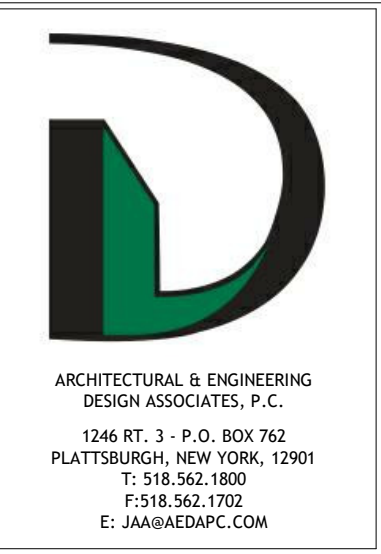
D

### Duct Color Fill Legend

- Exhaust Air
- Supply Air

### Pipe Color Fill Legend

- Domestic Cold Water
- Hydronic Return
- Hydronic Supply
- Natural Gas



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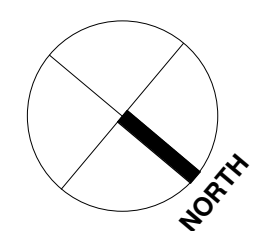
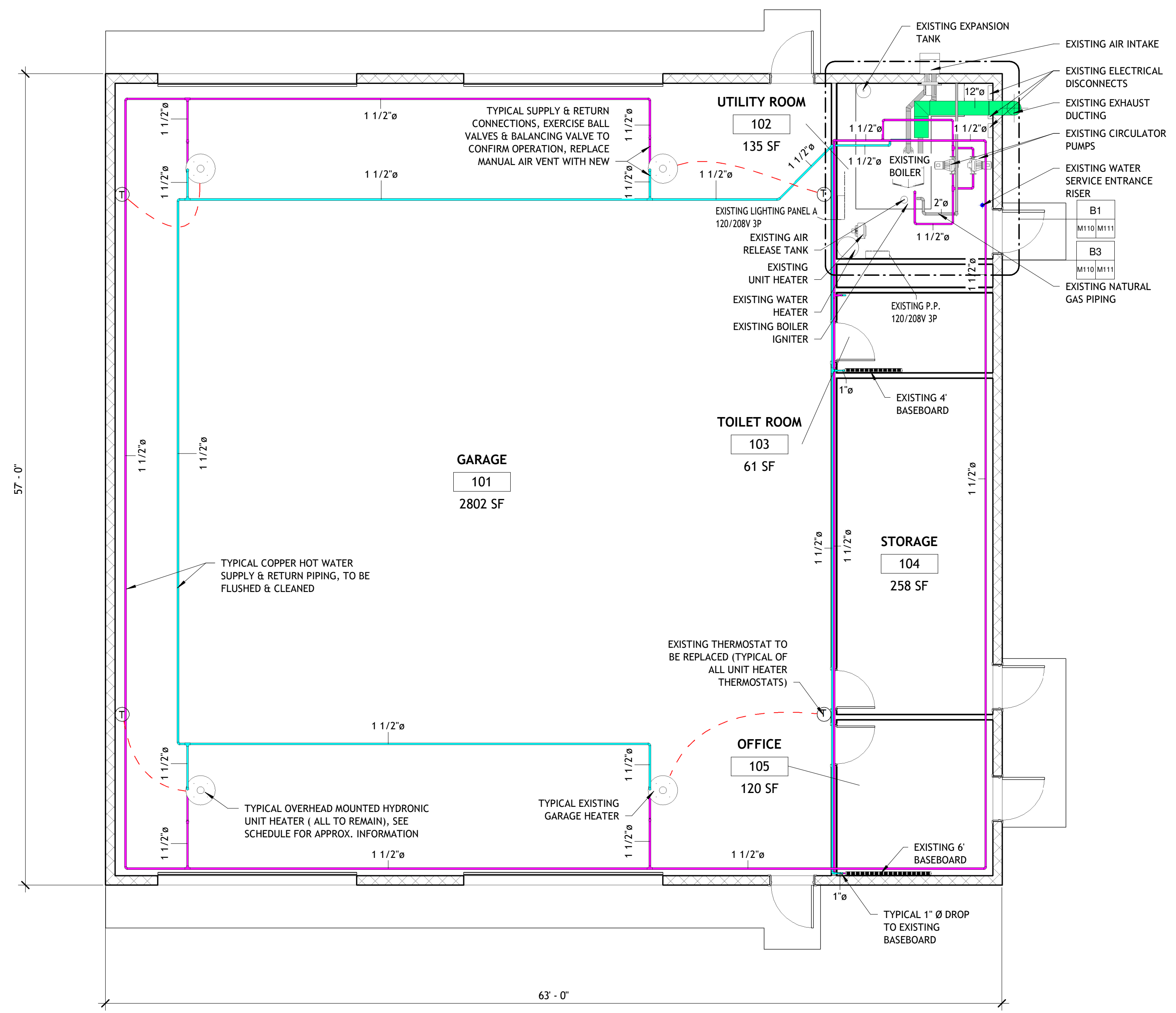


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### OVERALL HEO FLOOR PLAN

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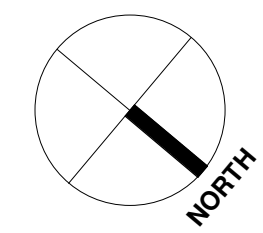
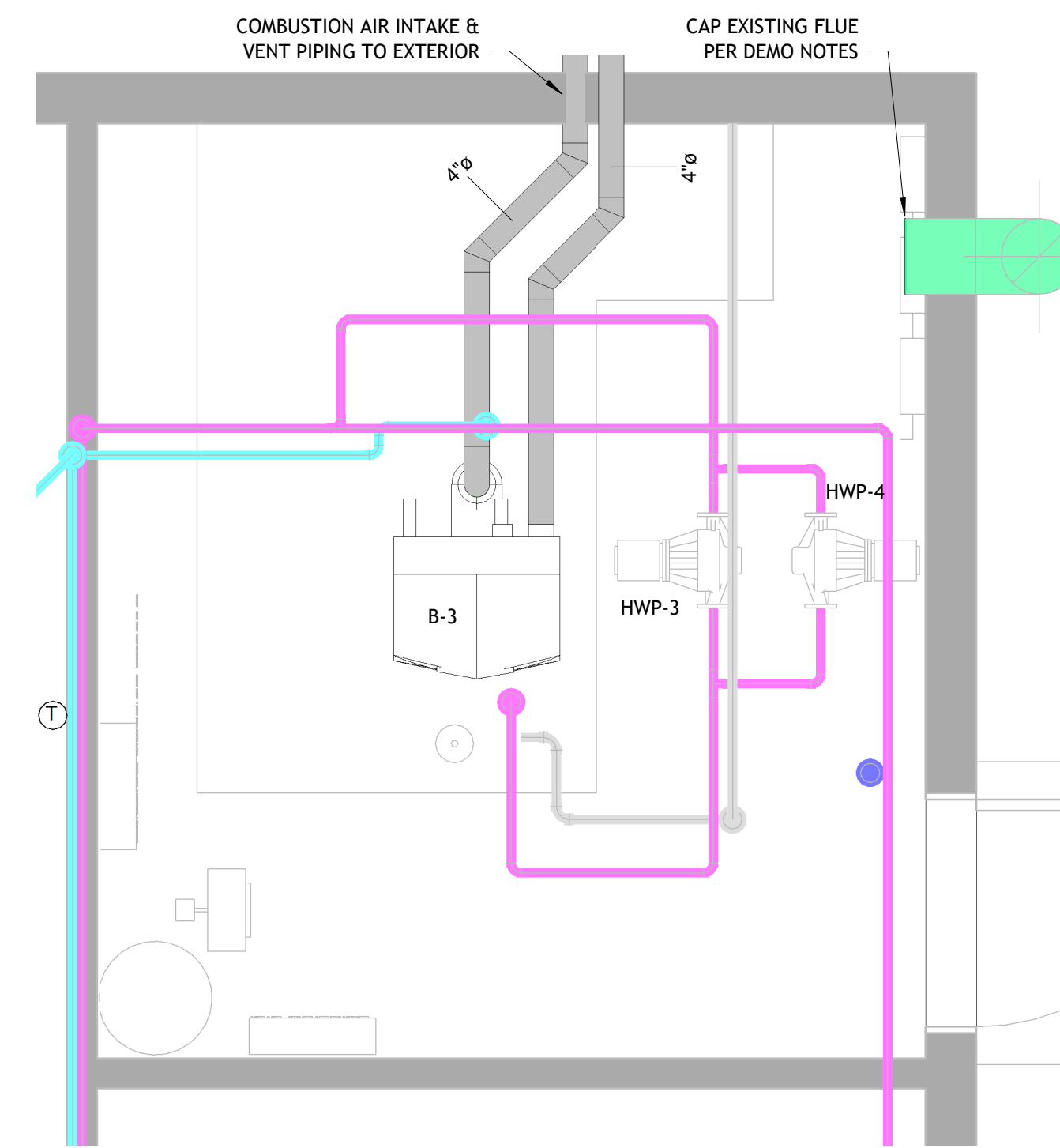
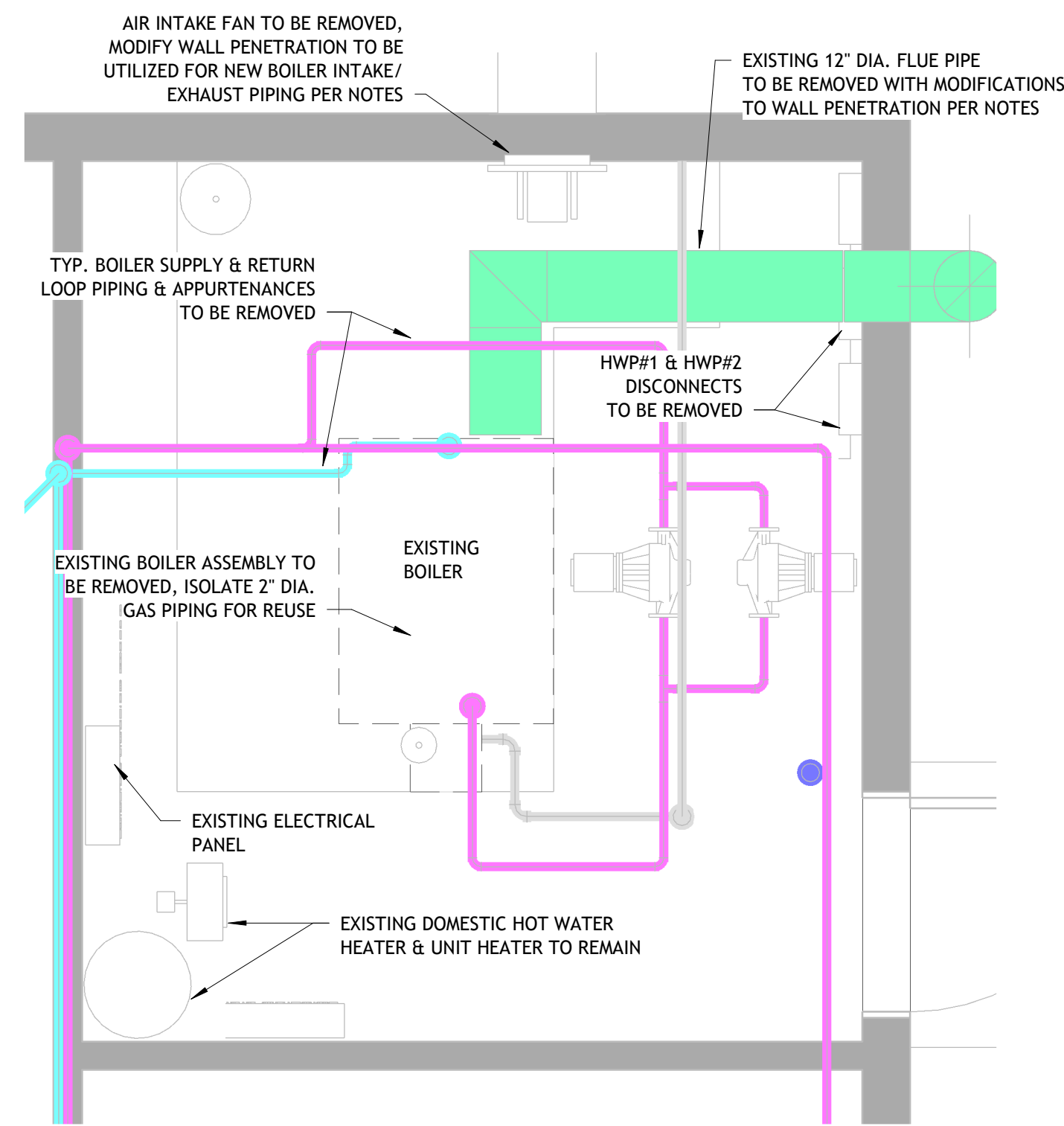
# M110



0 1' 2' 4' 8' 16'  
SCALE: 3/16" = 1' - 0"

**D1** OVERALL EXISTING FLOOR PLAN  
M110 3/16" = 1'-0"

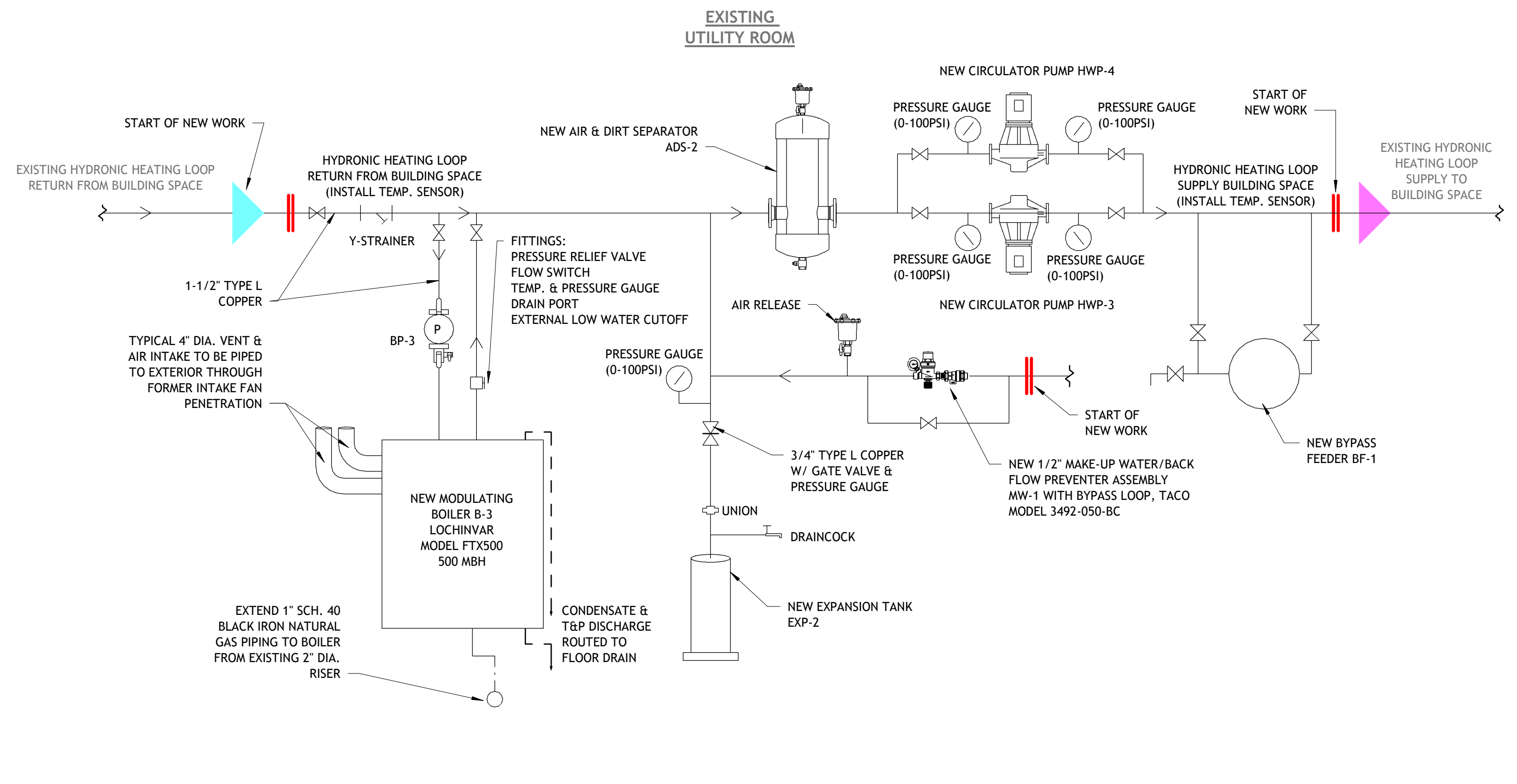
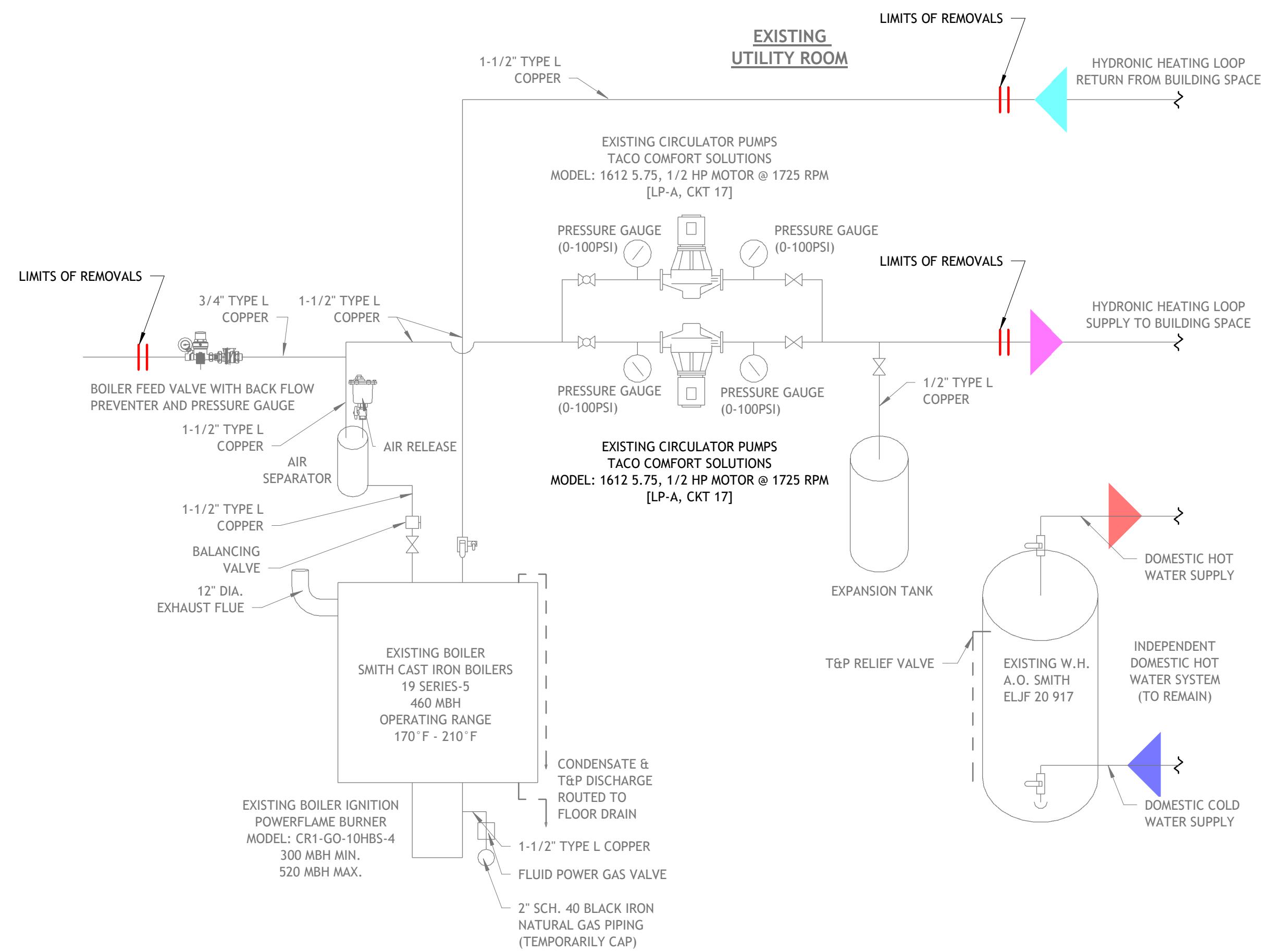
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SCALE: 1/2" = 1' - 0"

**B1 ENLARGED EXISTING UTILITY ROOM PLAN**

**B3 ENLARGED NEW UTILITY ROOM PLAN**



**D1 EXISTING BOILER SCHEMATIC**

**D3 NEW BOILER SCHEMATIC**



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ENLARGED HEO EXISTING/NEW UTILITY ROOM PLAN

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