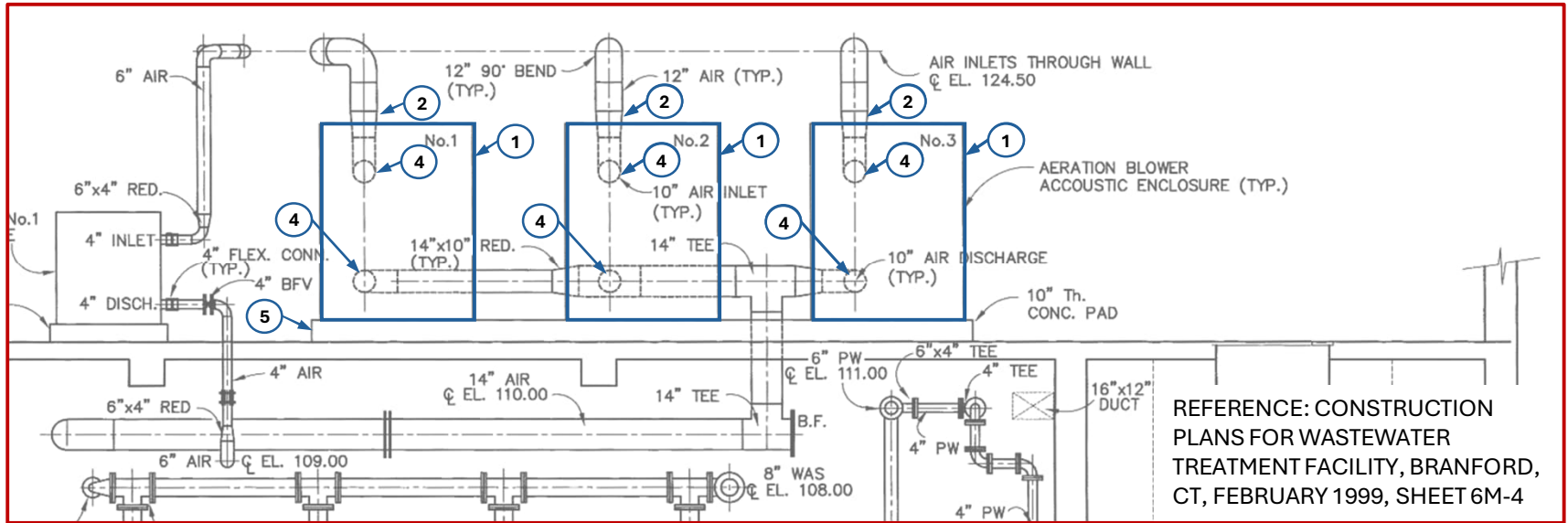
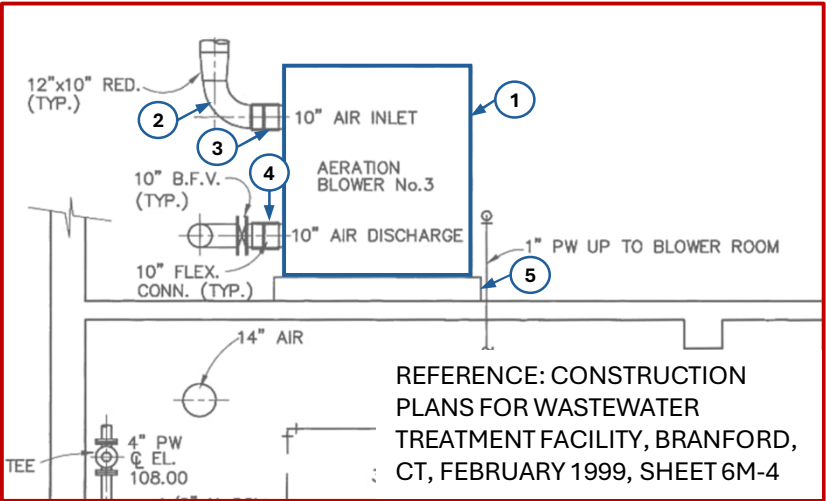


FIRST FLOOR PLAN – SECONDARY PROCESS BUILDING
SCALE: NTS



SECTION VIEW A-A
SCALE: NTS

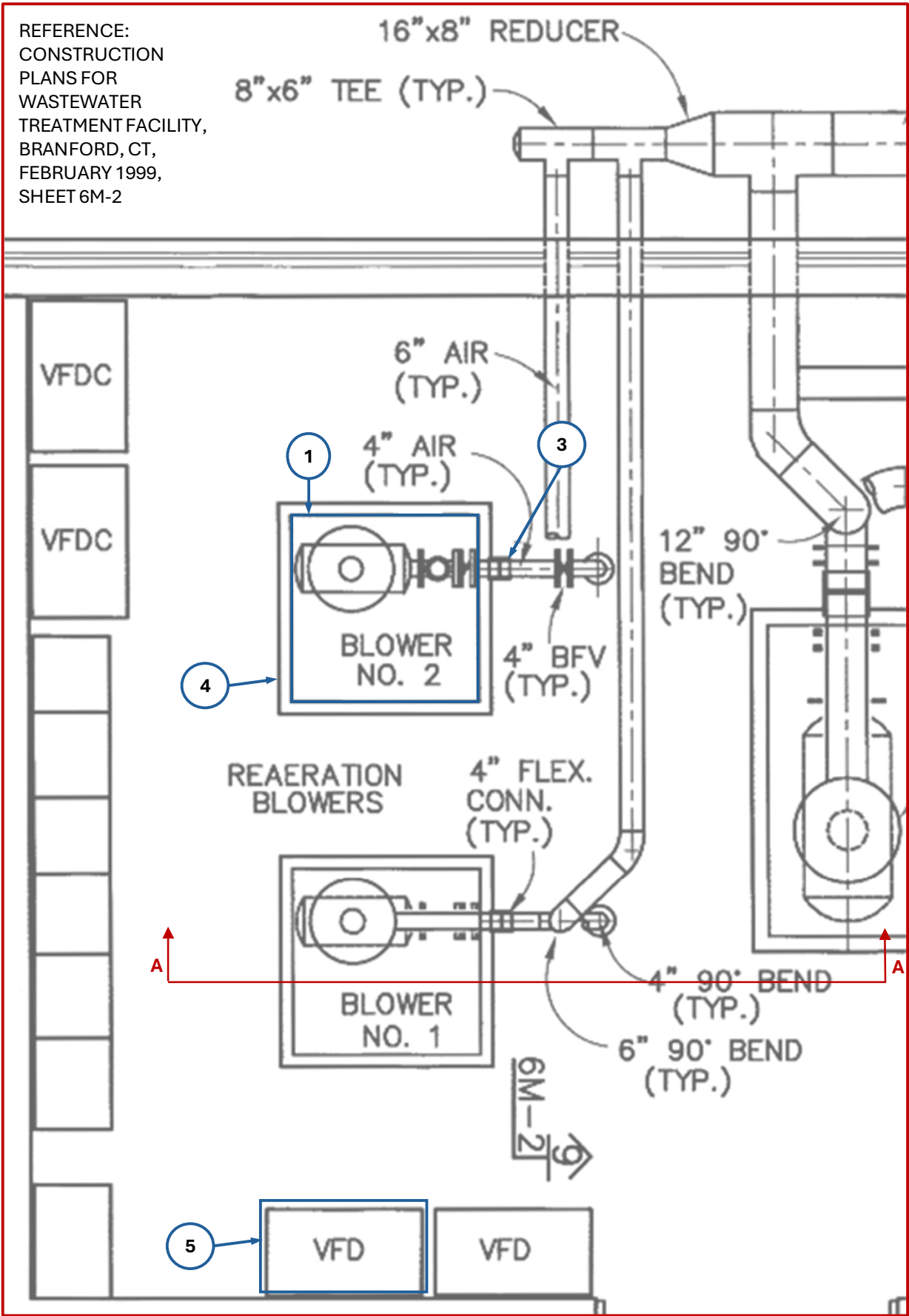


SECTION VIEW B-B
SCALE: NTS



AERATION BLOWER EXHAUST DUCTWORK
SCALE: NTS

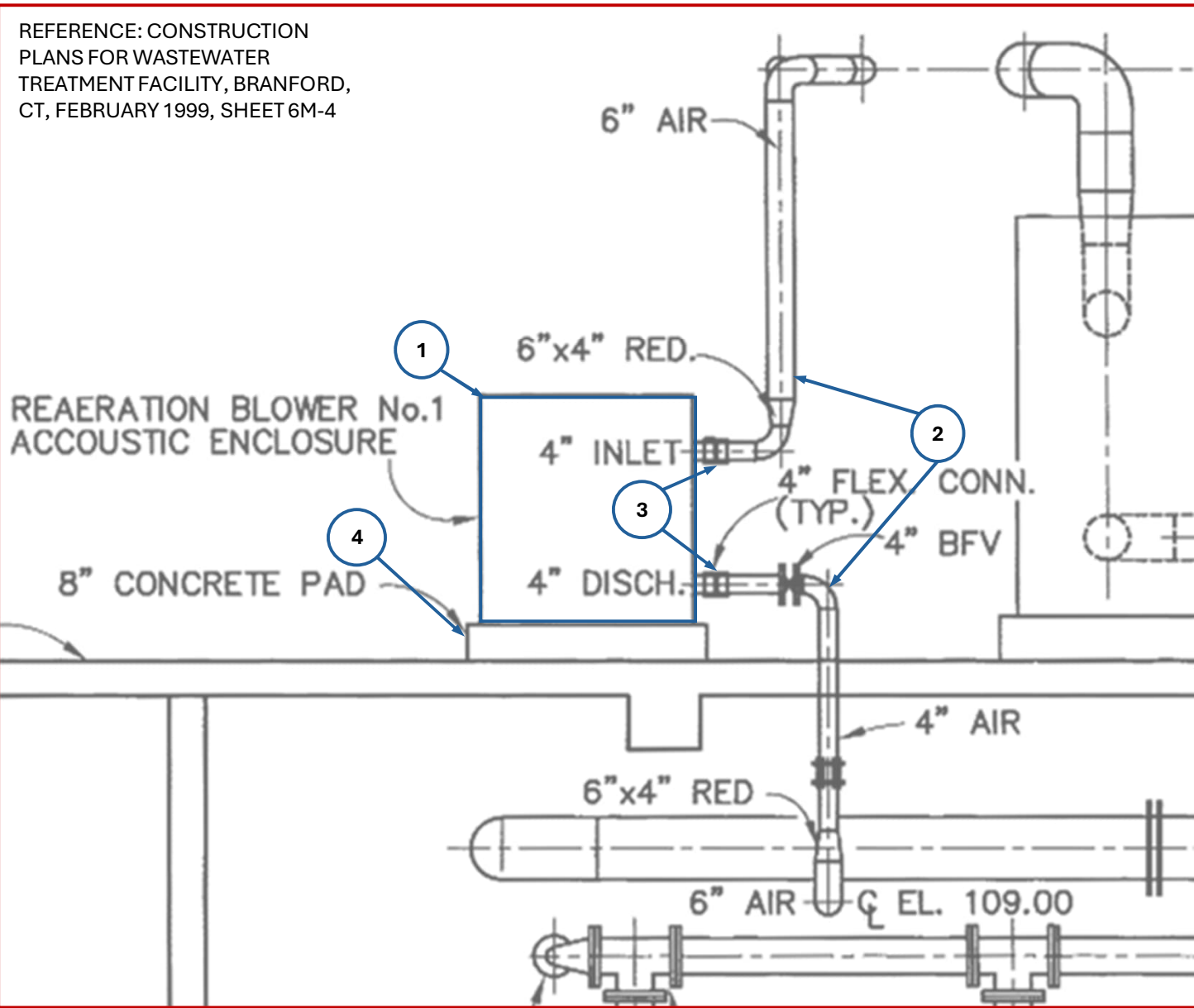
REFERENCE:
CONSTRUCTION
PLANS FOR
WASTEWATER
TREATMENT FACILITY,
BRANFORD, CT,
FEBRUARY 1999,
SHEET 6M-2



NOTES:

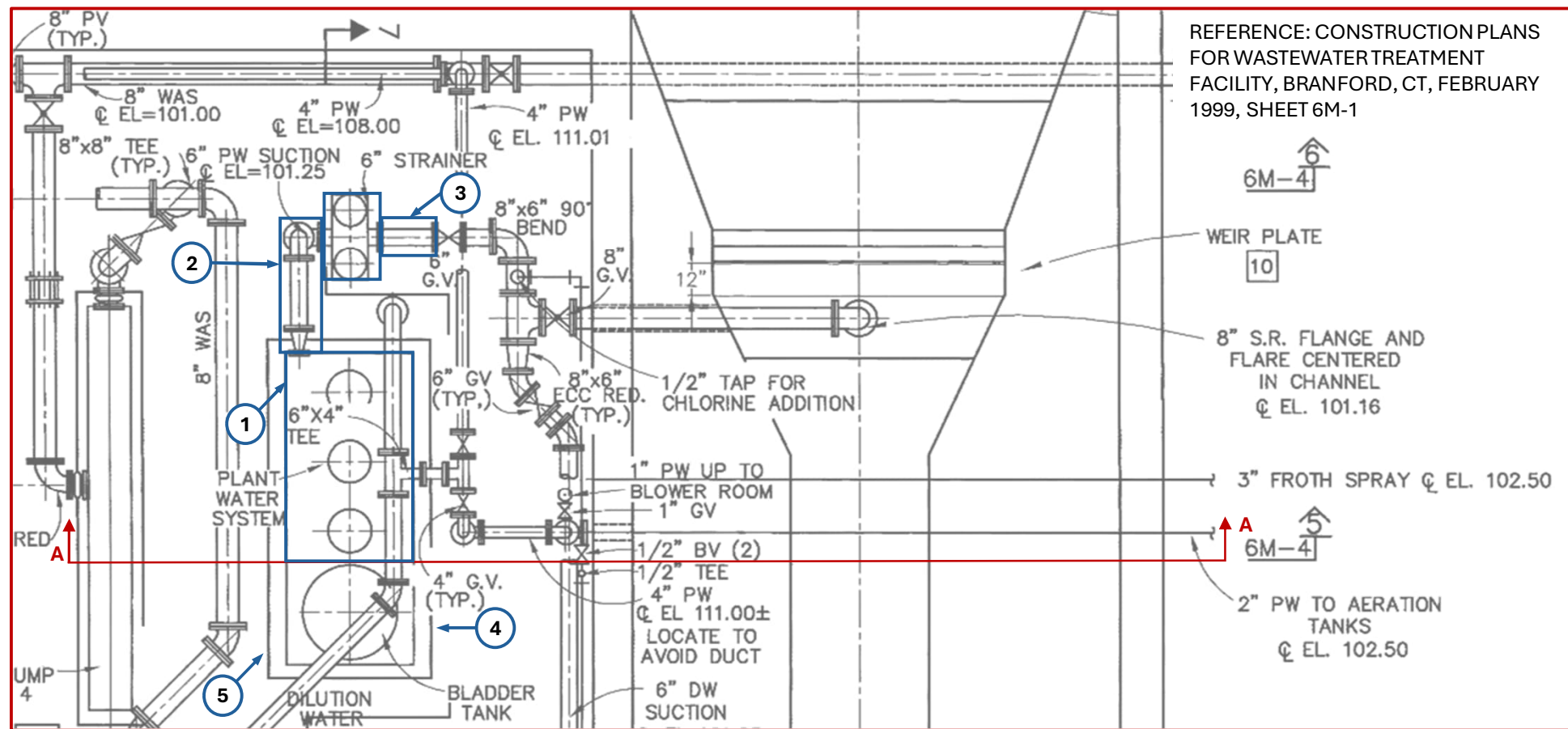
1. DEMOLISH AND REMOVE EXISTING REAERATION BLOWER NO. 2 PER SPEC 15210. FURNISH AND INSTALL PROPOSED REAERATION BLOWER PER SPEC 11305.
2. FURNISH AND INSTALL NEW INLET AND DISCHARGE AIR PROCESS PIPING PER SPEC 15210 AS REQUIRED TO CONNECT PROPOSED REAERATION BLOWER. DEMOLISH AND REMOVE EXISTING AIR PROCESS PIPING THAT CONFLICTS WITH NEW AIR PROCESS PIPING.
3. FURNISH AND INSTALL NEW EXPANSION COUPLINGS FOR BOTH AIR INLET AND DISCHARGE PIPING PER SPEC 15210 (TYP. OF 2).
4. ANY DAMAGE TO EXISTING CONCRETE PAD SHALL BE REPAIRED IN ACCORDANCE WITH SPEC 03300.
5. BLOWER NO. 2 VFD (VFDC NO. 30): REFER TO SHEET E1-1.

REFERENCE: CONSTRUCTION
PLANS FOR WASTEWATER
TREATMENT FACILITY, BRANFORD,
CT, FEBRUARY 1999, SHEET 6M-4



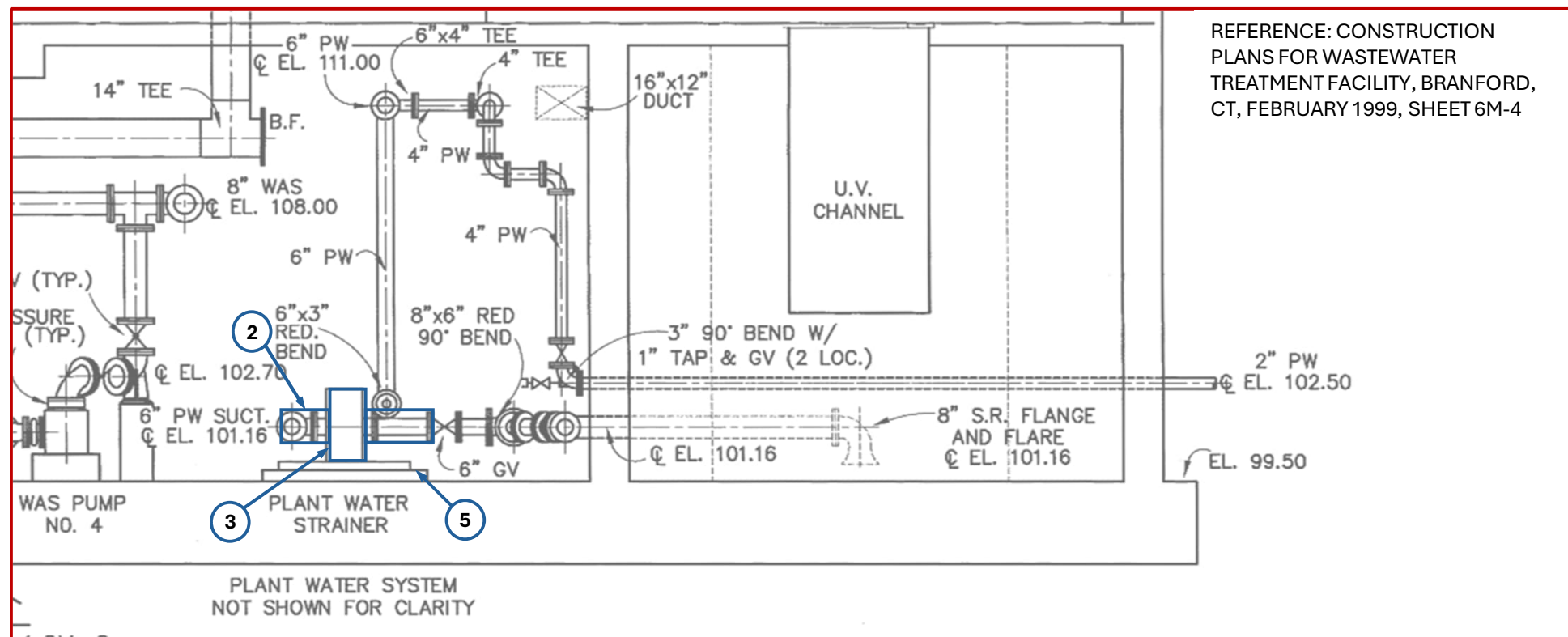
SECTION VIEW A-A
SCALE: NTS

FIRST FLOOR PLAN – SECONDARY PROCESS BUILDING
SCALE: NTS



BASEMENT PLAN – SECONDARY PROCESS BUILDING

SCALE: NTS



SECTION VIEW A-A

SCALE: NTS

NOTES:

1. DEMOLISH AND REMOVE EXISTING PLANT WATER PUMP SKID PER SPEC 02225. FURNISH AND INSTALL PROPOSED PLANT WATER PUMP SKID PER SPEC 11215.
2. FURNISH AND INSTALL NEW SUCTION AND DISCHARGE PLANT WATER PIPING PER SPEC 15220 AS REQUIRED TO CONNECT PROPOSED PLANT WATER SYSTEM. DEMOLISH AND REMOVE EXISTING PLANT WATER PIPING THAT CONFLICTS WITH NEW PLANT WATER PIPING.
3. FURNISH AND INSTALL NEW IN-KIND PLANT WATER BASKET STRAINER AND ASSOCIATED PIPING PER SPECS 15225 AND 15220, RESPECTIVELY.
4. MODIFY EXISTING CONCRETE PAD TO ACCOMMODATE THE NEW SKID MOUNTED PLANT WATER PUMP SYSTEM. THIS MAY INCLUDE REMOVAL OF THE EXISTING CONCRETE PAD AND INSTALLATION OF A NEW CONCRETE PAD PER SPEC 03300.
5. ANY DAMAGE TO EXISTING CONCRETE PAD SHALL BE REPAIRED IN ACCORDANCE WITH SPEC 03300.

BRANFORD WATER POLLUTION CONTROL FACILITY

PROCESS SYSTEM UPGRADES – ALT 2

PLANT WATER SYSTEM REPLACEMENT

BRANFORD

CONNECTICUT

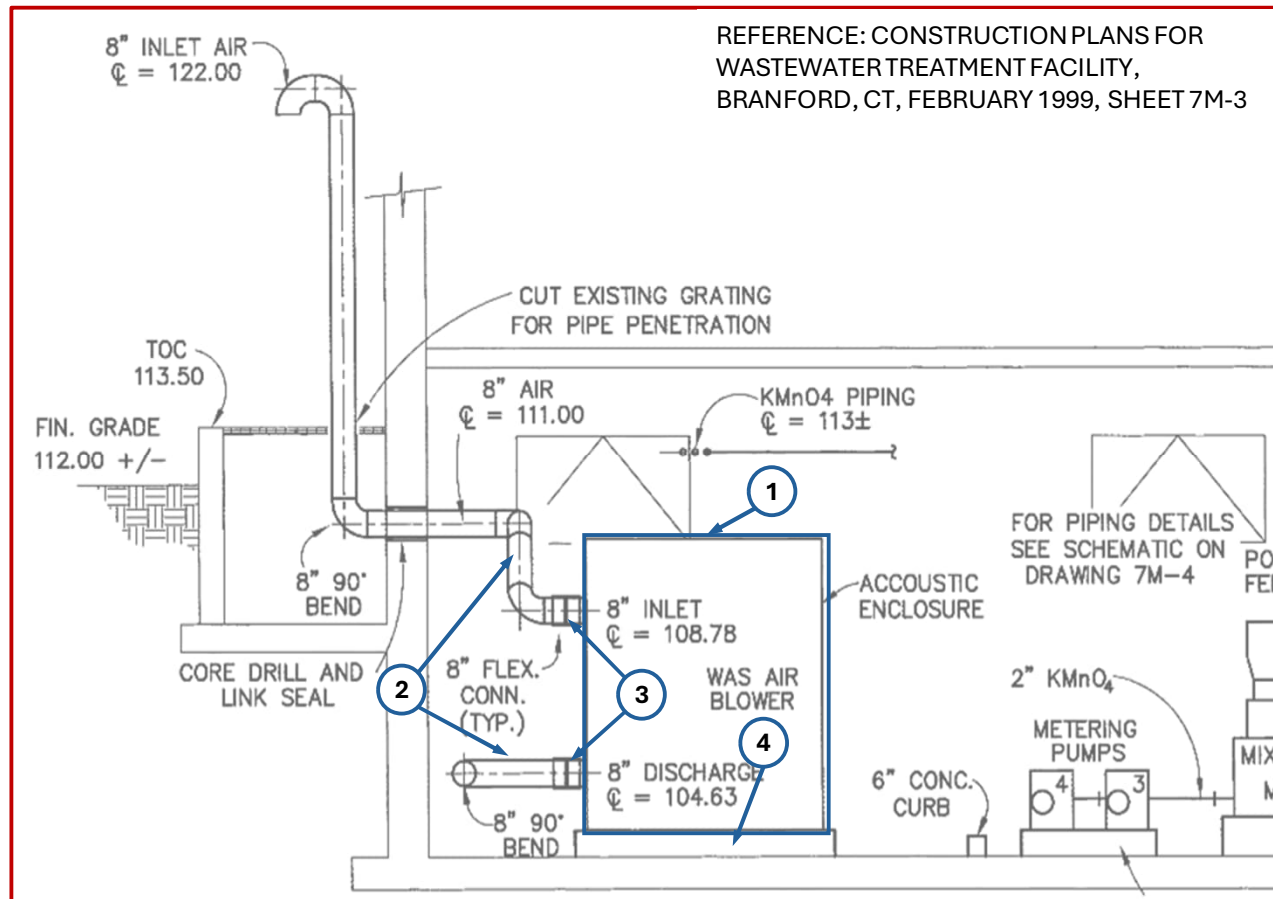


JKMUIR, LLC

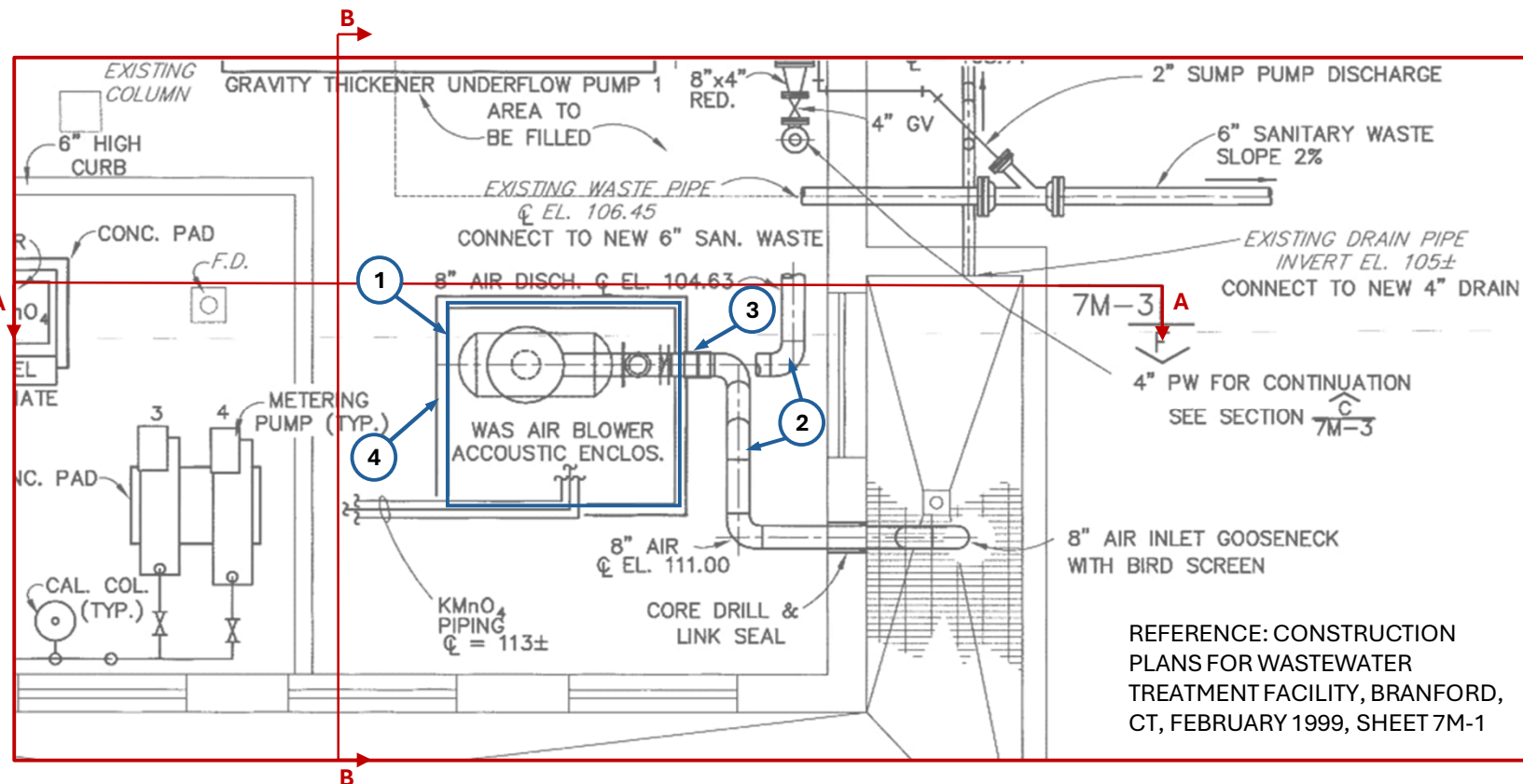
2275 SILAS DEANE HWY
ROCKY HILL, CT, 06067

MAY 2025

FIGURE
M2-01



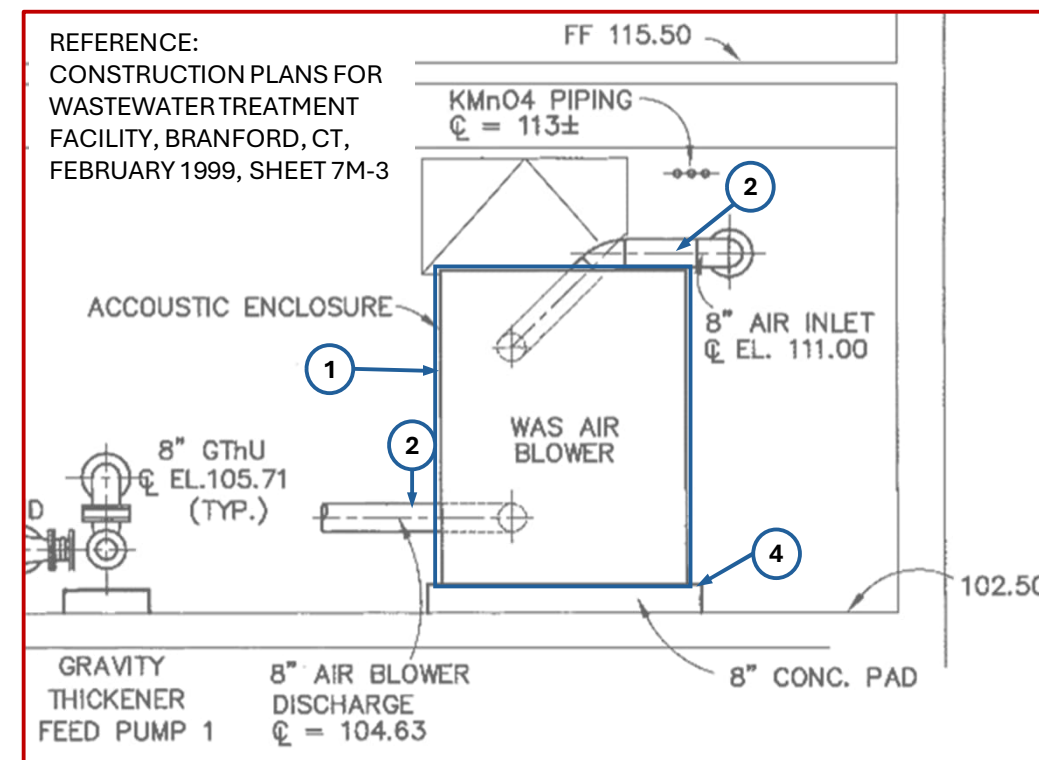
SECTION VIEW A-A
SCALE: NTS



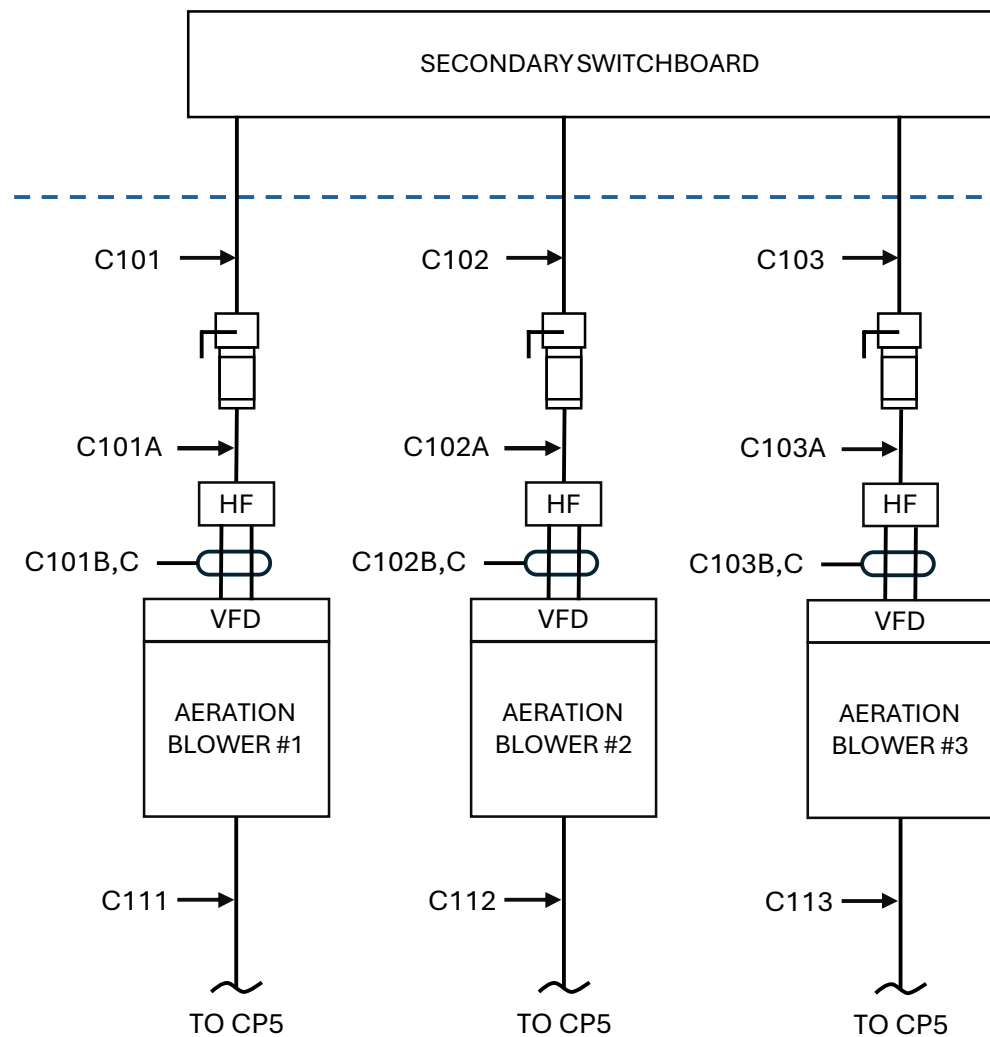
BASEMENT PLAN – SOLIDS PROCESSING BUILDING
SCALE: NTS

NOTES:

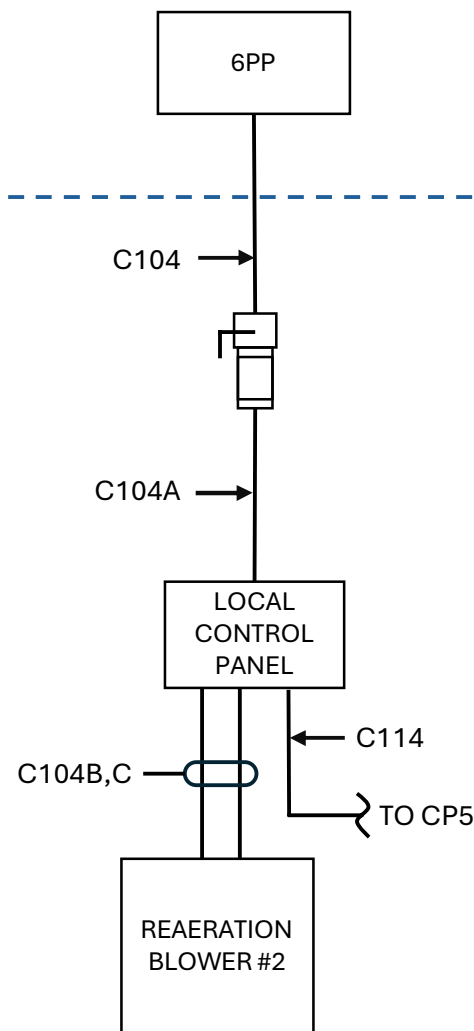
1. DEMOLISH AND REMOVE EXISTING WAS BLOWER PER SPEC 02225. FURNISH AND INSTALL PROPOSED WAS BLOWER PER SPEC 11305.
2. FURNISH AND INSTALL NEW SUCTION AND DISCHARGE PROCESS AIR PIPING PER SPEC 15210 AS REQUIRED TO CONNECT PROPOSED WAS BLOWER. DEMOLISH AND REMOVE EXISTING WAS BLOWER PROCESS AIR PIPING THAT CONFLICTS WITH NEW WAS BLOWER PROCESS AIR PIPING.
3. FURNISH AND INSTALL NEW EXPANSION COUPLING FOR BOTH AIR INLET AND DISCHARGE PIPING PER SPEC 15210 (TYP. OF 2).
4. ANY DAMAGE TO EXISTING CONCRETE PAD SHALL BE REPAIRED IN ACCORDANCE WITH SPEC 03300.



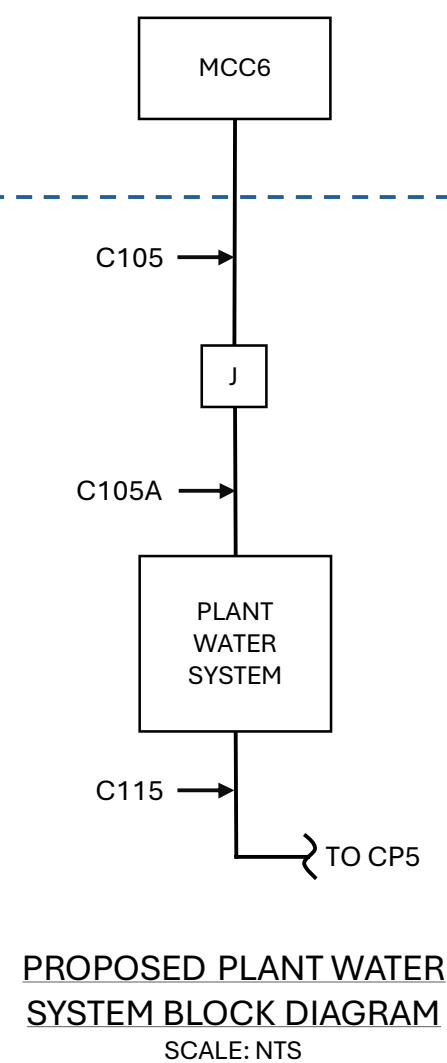
SECTION VIEW B-B
SCALE: NTS



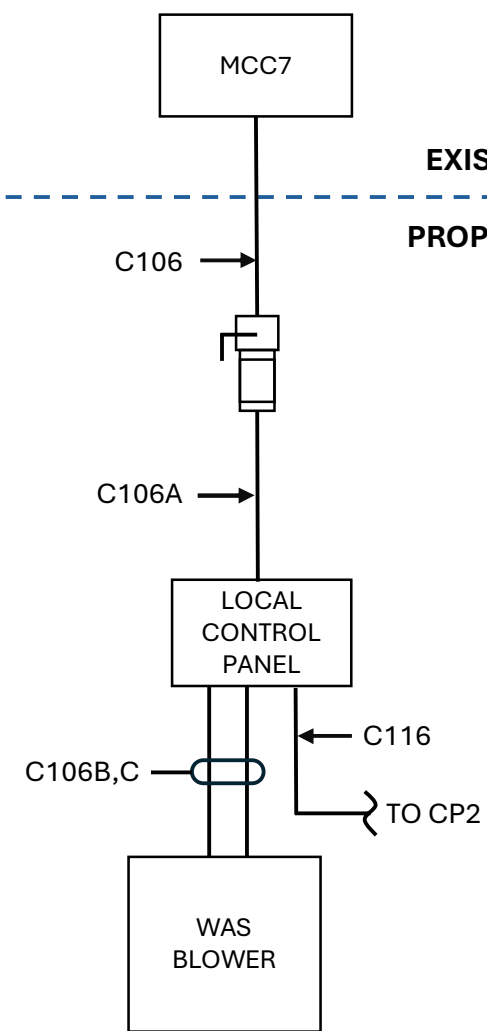
**PROPOSED AERATION BLOWERS
BLOCK DIAGRAM**
SCALE: NTS



**PROPOSED REAERATION
BLOWER BLOCK DIAGRAM**
SCALE: NTS



**PROPOSED PLANT WATER
SYSTEM BLOCK DIAGRAM**
SCALE: NTS



**PROPOSED WAS BLOWER
BLOCK DIAGRAM**
SCALE: NTS

**EXISTING
PROPOSED**

BRANFORD WATER POLLUTION CONTROL FACILITY

PROCESS SYSTEM UPGRADES

BLOCK WIRING DIAGRAMS

BRANFORD

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2275 SILAS DEANE HWY
ROCKY HILL, CT, 06067

MAY 2025

**FIGURE
E0-01**

CONDUIT	CONDUIT SIZE	CABLE	FROM	TO	REMARKS
C101	3	3-500MCM + #3 G	Secondary Switchboard	Disconnect Switch	Connect existing Wiring to new Fused Disconnect
C101A	2	3-#2/0 + #6 G	Disconnect Switch	Aeration Blower #1	
C101B	2	3-#2/0 + #6 G	Harmonic Filter	Aeration Blower #1	
C101A	1 ½	12-#18 TSP	Harmonic Filter	Aeration Blower #1	
C102	3	3-500MCM + #3 G	Secondary Switchboard	Disconnect Switch	Connect existing Wiring to new Fused Disconnect
C102A	2	3-#2/0 + #6 G	Disconnect Switch	Aeration Blower #2	
C102B	2	3-#2/0 + #6 G	Harmonic Filter	Aeration Blower #2	
C102C	1 ½	12-#18 TSP	Harmonic Filter	Aeration Blower #2	
C103	3	3-500MCM + #3 G	Secondary Switchboard	Disconnect Switch	Connect existing Wiring to new Fused Disconnect
C103A	2	3-#2/0 + #6 G	Disconnect Switch	Aeration Blower #3	
C103B	2	3-#2/0 + #6 G	Harmonic Filter	Aeration Blower #3	
C103C	1 ½	12-#18 TSP	Harmonic Filter	Aeration Blower #3	
C104	1	4-#4 & #8 G	6PP	Disconnect Switch	Connect existing Wiring to new Fused Disconnect
C104A	1	4-#4 & #8 G	Disconnect Switch	Local Control Panel	
C104B	1	4-#4 & #8 G	Local Control Panel	Reaeration Blower #2	Drive Rated Cable
C104C	1 ½	12-#18 TSP	Re-aeration Blower #2 Local Control Panel	CP5	
C105	1	3 #4 & #10 G	MCC 6	Junction Box	Connect existing Wiring to new Fused Disconnect
C105A	1	3 #4 & #10 G	Junction Box	Plant Water System	
C106	2 ½	3 -250MCM + #4 G	MCC 7	Disconnect Switch	Connect existing Wiring to new Fused Disconnect
C106A	2	3-#2/0 + #6 G	Disconnect Switch	Local Control Panel	
C106B	2	3-#2/0 + #6 G	Local Control Panel	WAS Blower	Drive Rated Cable
C106C	1 ½	12-#18 TSP	WAS Blower Local Control Panel	CP5	
C111	¾	Cat 6	Aeration Blower #1	CP5	
C112	¾	Cat 6	Aeration Blower #2	CP5	
C113	¾	Cat 6	Aeration Blower #3	CP5	
C114	¾	Cat 6	Re-aeration Blower #2	CP5	
C115	¾	Cat 6	Plant Water System	CP5	
C116	¾	Cat 6	WAS Blower VFD	CP2	



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BRANFORD WATER POLLUTION CONTROL FACILITY

PROCESS SYSTEM UPGRADES

CABLE AND CONDUIT SCHEDULE

CONNECTICUT

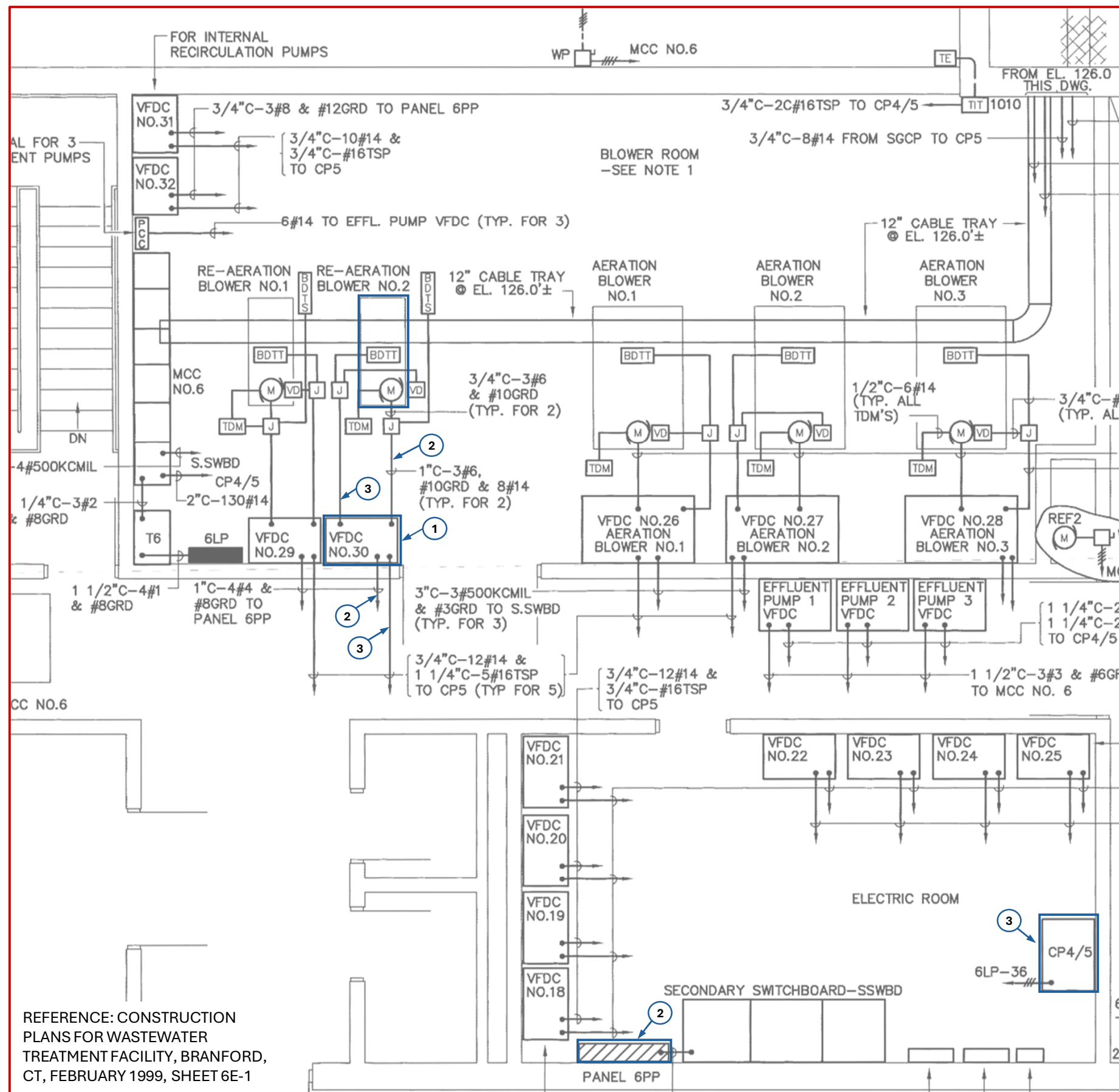
BRANFORD

MAY 2025

FIGURE
E0-02

[illegible]

FIGURE E0-03



NOTES:

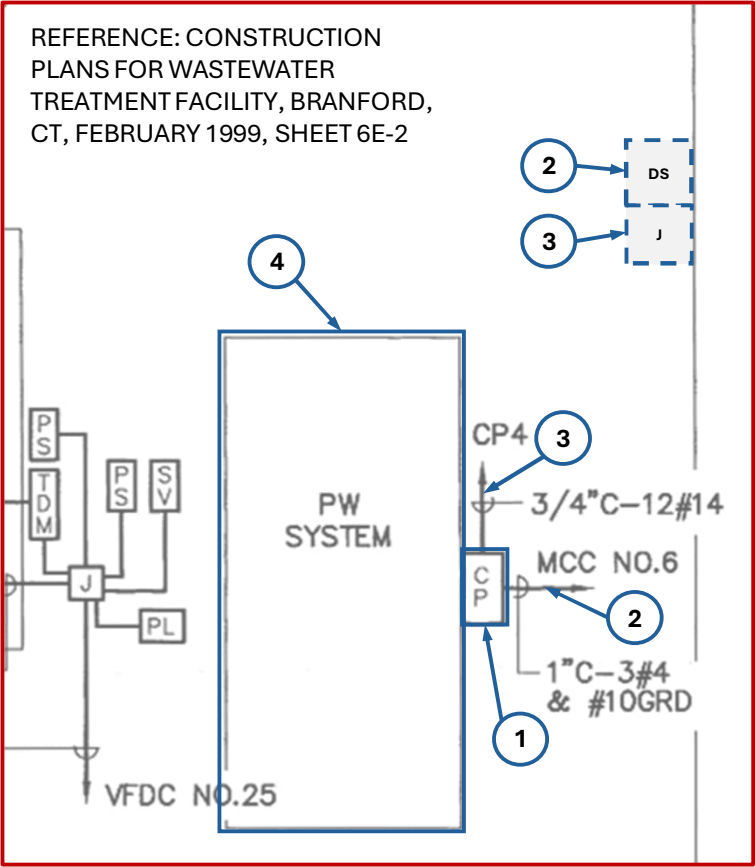
1. DEMOLISH AND REMOVE EXISTING REAERATION BLOWER VFD. REFER TO SHEET M1-01 FOR LOCATION. FURNISH AND INSTALL PROPOSED LOCAL CONTROL PANEL (LCP) DISCONNECT SWITCH.
2. CONNECT PANEL 6PP POWER FROM EXISTING VFD TO PROPOSED VFD AND DISCONNECT SWITCH AND ROUTE TO NEW BLOWER DRIVE.
3. CONNECT SIGNALS FROM PROPOSED REAERATION BLOWER LCP TO CONTROL PANEL CP5.
4. REFER TO SHEET M1-01.

REFERENCE: CONSTRUCTION
PLANS FOR WASTEWATER
TREATMENT FACILITY, BRANFORD,
CT, FEBRUARY 1999, SHEET 6E-1

FIRST FLOOR PLAN - SECONDARY PROCESS BUILDING
SCALE: NTS

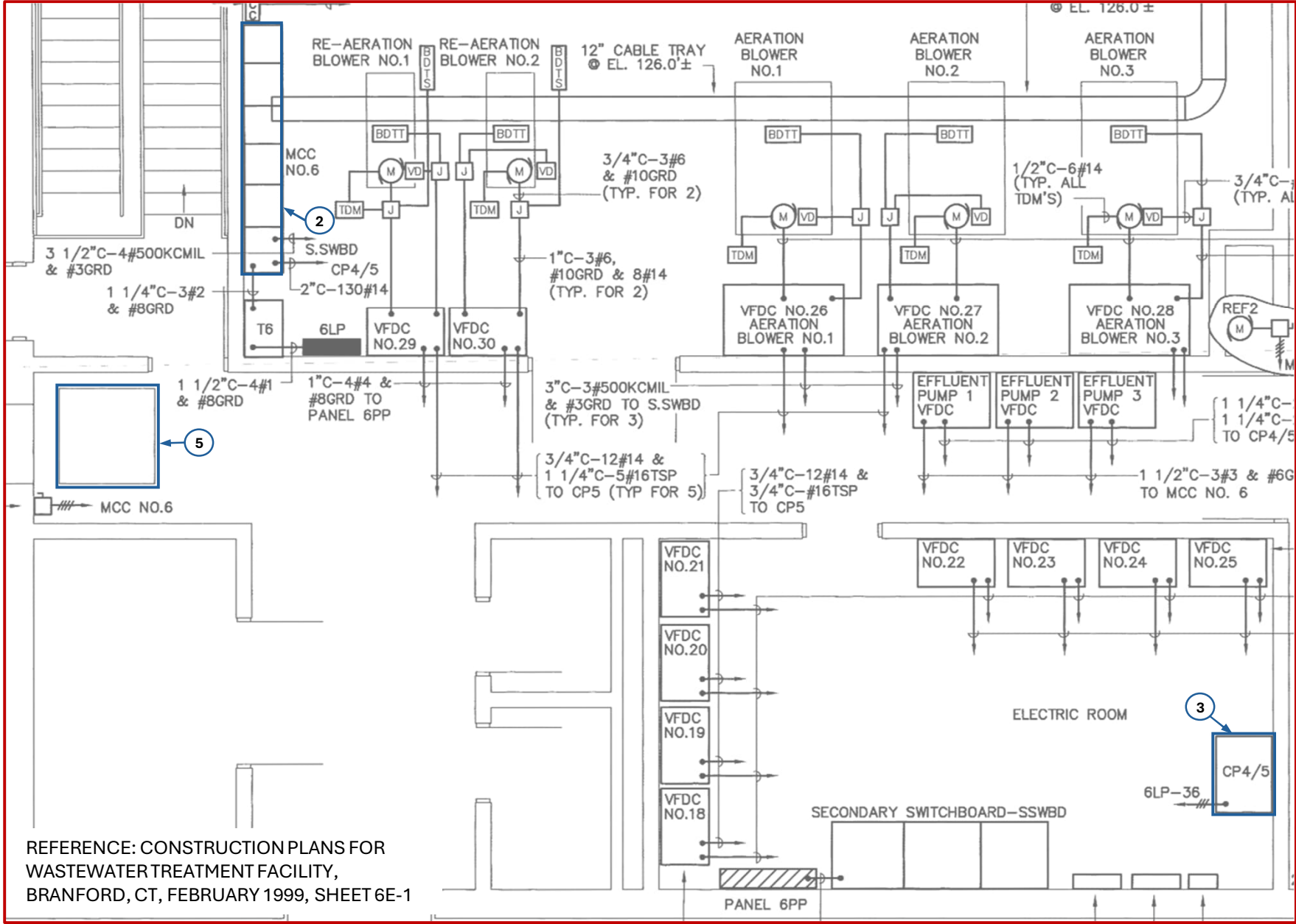
MAY 2025

**FIGURE
E1-01**

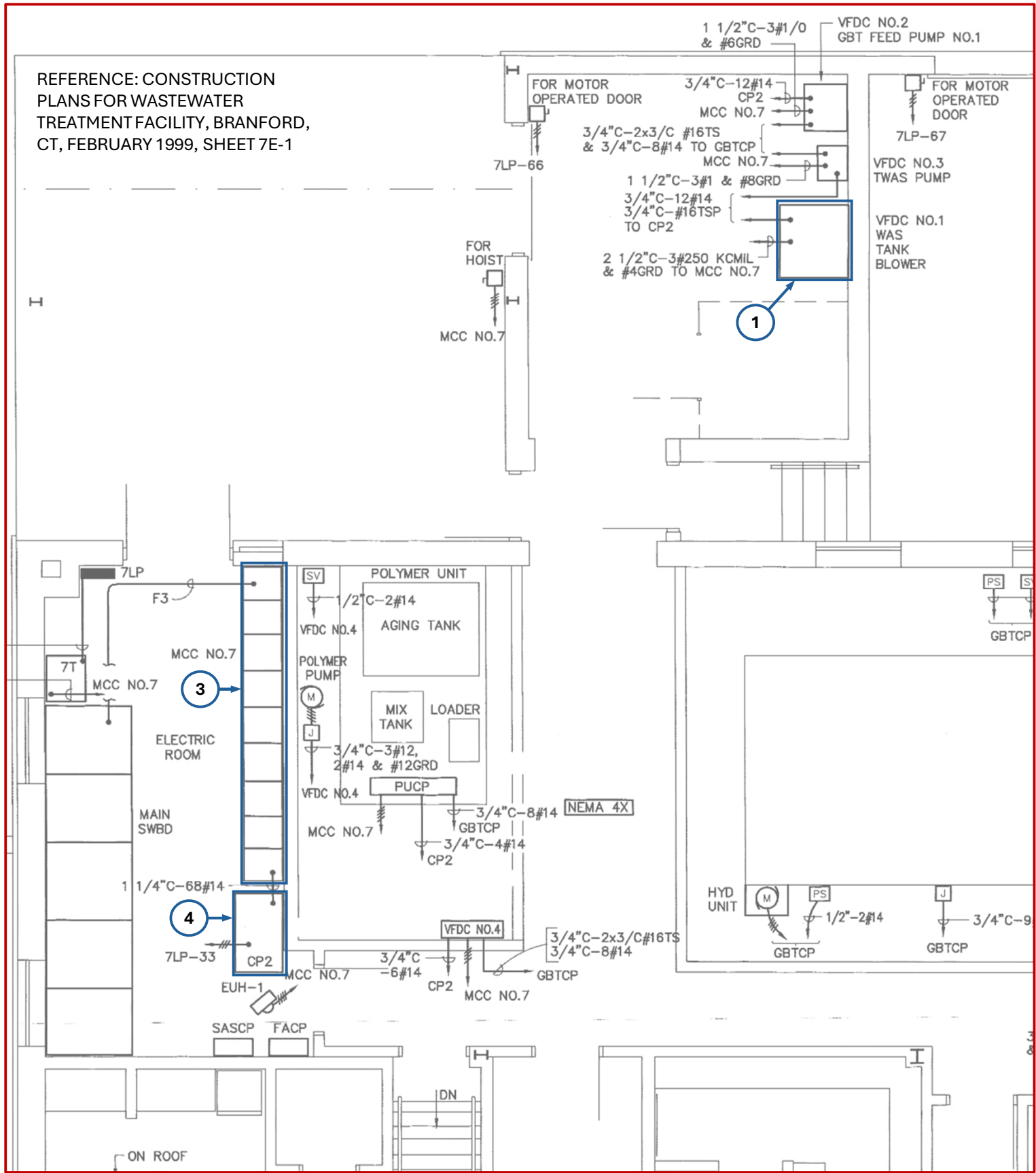


BASEMENT PLAN – SECONDARY PROCESS BUILDING
SCALE: NTS

- NOTES:
1. DEMOLISH AND REMOVE EXISTING PLANT WATER SYSTEM CONTROL PANEL FURNISH AND INSTALL PROPOSED LOCAL CONTROL PANEL IN PLACE OF EXISTING LOCAL CONTROL PANEL.
 2. CONNECT MCC NO. 6 POWER FROM PROPOSED LOCAL CONTROL PANEL TO PROPOSED DISCONNECT SWITCH AND ROUTE TO NEW PLANT WATER PUMP DRIVES. DISCONNECT SWITCH SHALL BE MOUNTED TO THE WALL. LOCATION SHOWN IS APPROXIMATE.
 3. CONNECT SIGNALS FROM PROPOSED PLANT WATER SYSTEM TO PROPOSED JUNCTION BOX AND ROUTE TO CONTROL PANEL CP5. JUNCTION BOX SHALL BE MOUNTED TO THE WALL. LOCATION SHOWN IS APPROXIMATE.
 4. REFER TO SHEET M2-01.
 5. HATCH TO SECONDARY PROCESS BUILDING BASEMENT.



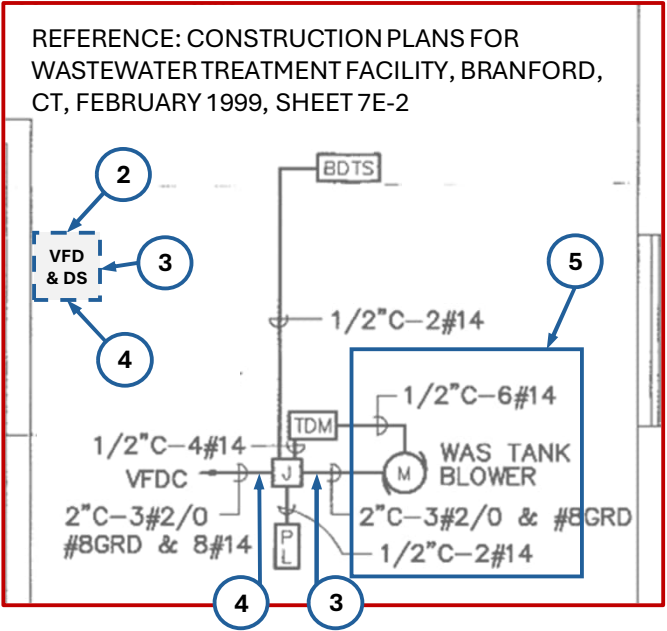
FIRST FLOOR PLAN – SECONDARY PROCESS BUILDING
SCALE: NTS



FIRST FLOOR PLAN – SOLIDS PROCESSING BUILDING
SCALE: NTS

NOTES:

1. DEMOLISH AND REMOVE EXISTING WAS BLOWER VFD.
2. FURNISH AND INSTALL PROPOSED LOCAL CONTROL PANEL (LCP) AND DISCONNECT SWITCH. LCP SHALL BE MOUNTED TO THE WALL. LOCATION SHOWN IS APPROXIMATE.
3. CONNECT MCC NO. 7 POWER TO PROPOSED DISCONNECT SWITCH AND TO NEW WAS BLOWER LCP.
4. CONNECT SIGNALS FROM PROPOSED WAS BLOWER LCP TO CONTROL PANEL CP2.
5. REFER TO SHEET M3-01.
6. INSTALL CONDUIT FOR ELECTRICAL AND CONTROLS WIRING.



BASEMENT PLAN – SOLIDS PROCESSING BUILDING
SCALE: NTS