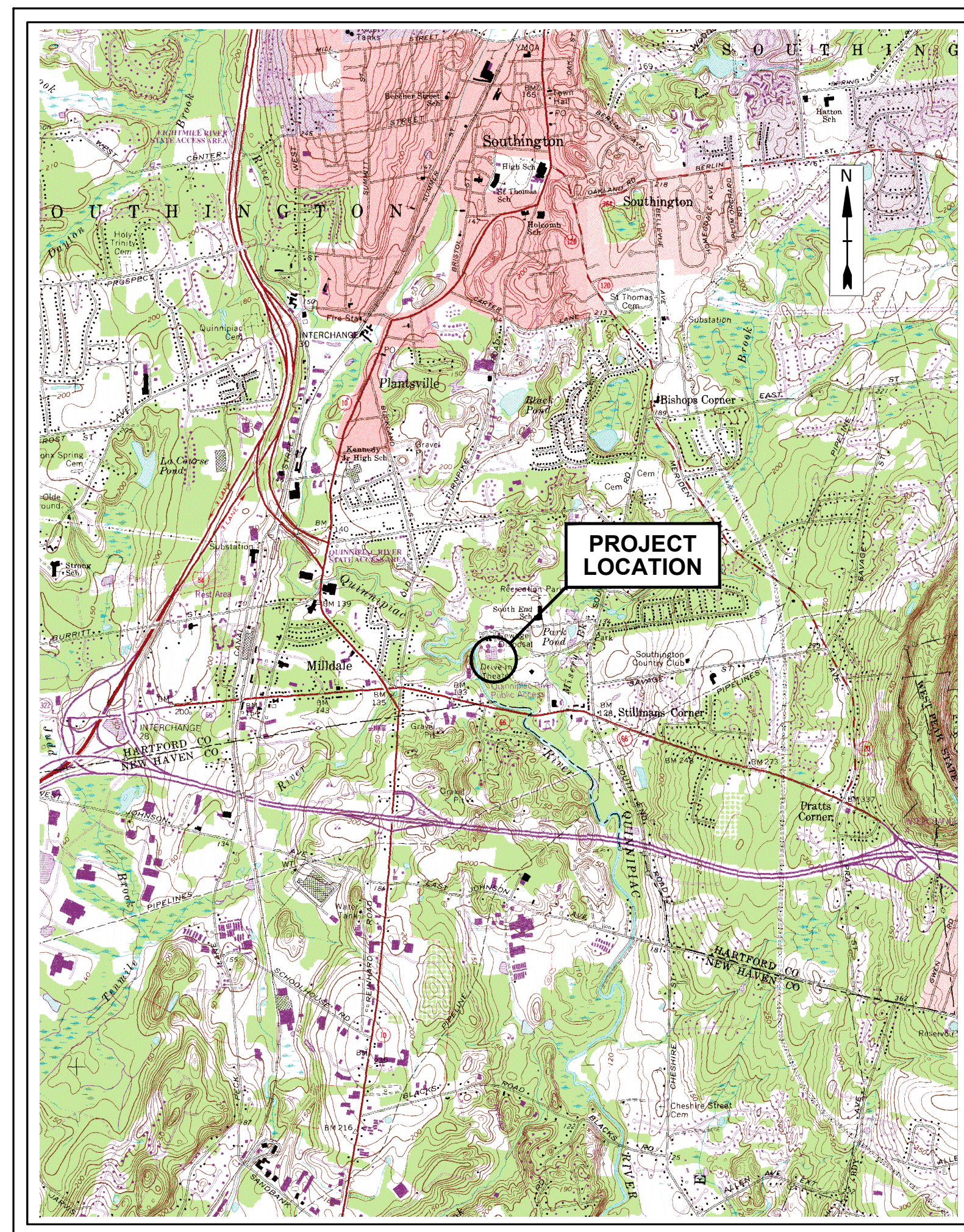


WATER POLLUTION CONTROL PLANT PHOSPHORUS REMOVAL MAGNETITE FEEDER PROJECT TOWN OF SOUTHLINGTON, CONNECTICUT PROJECT # 2025-01 MARCH 2025

LIST OF DRAWINGS		
SHEET NO.	DRAWING NO.	DRAWING TITLE
1	G-001	COVER SHEET
2	M-601	MECHANICAL PLAN PHOSPHORUS REMOVAL BUILDING - PROCESS AREA
3	M-604	MECHANICAL SECTIONS - PHOSPHORUS REMOVAL BUILDING
4	PI-604	PIPING & INSTRUMENTATION DIAGRAM - PHOSPHORUS REMOVAL SYSTEM
5	E-601	ELECTRICAL PLAN PHOSPHORUS REMOVAL BUILDING - PROCESS AREA

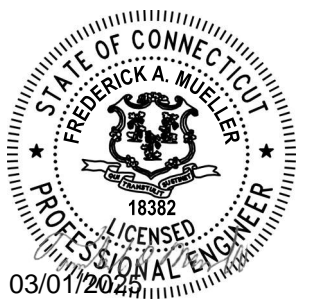


LOCATION PLAN

NO SCALE

PREPARED BY:

Tighe&Bond



WPCP SUPERINTENDENT
KIARI WILLIAMS

COMPLETE SET 5 SHEETS

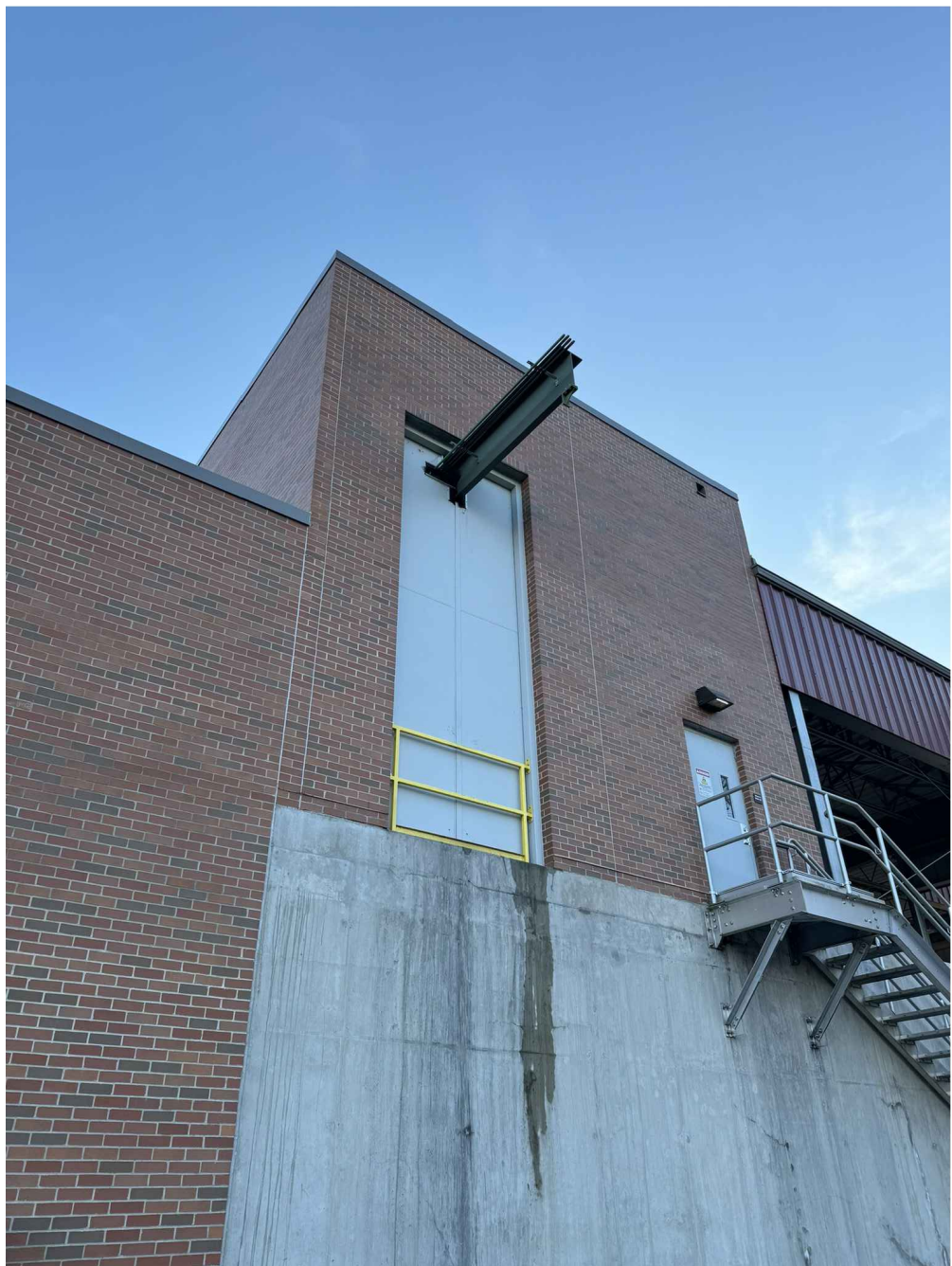


PHOTO NO. 1



PHOTO NO. 2



NOTES:

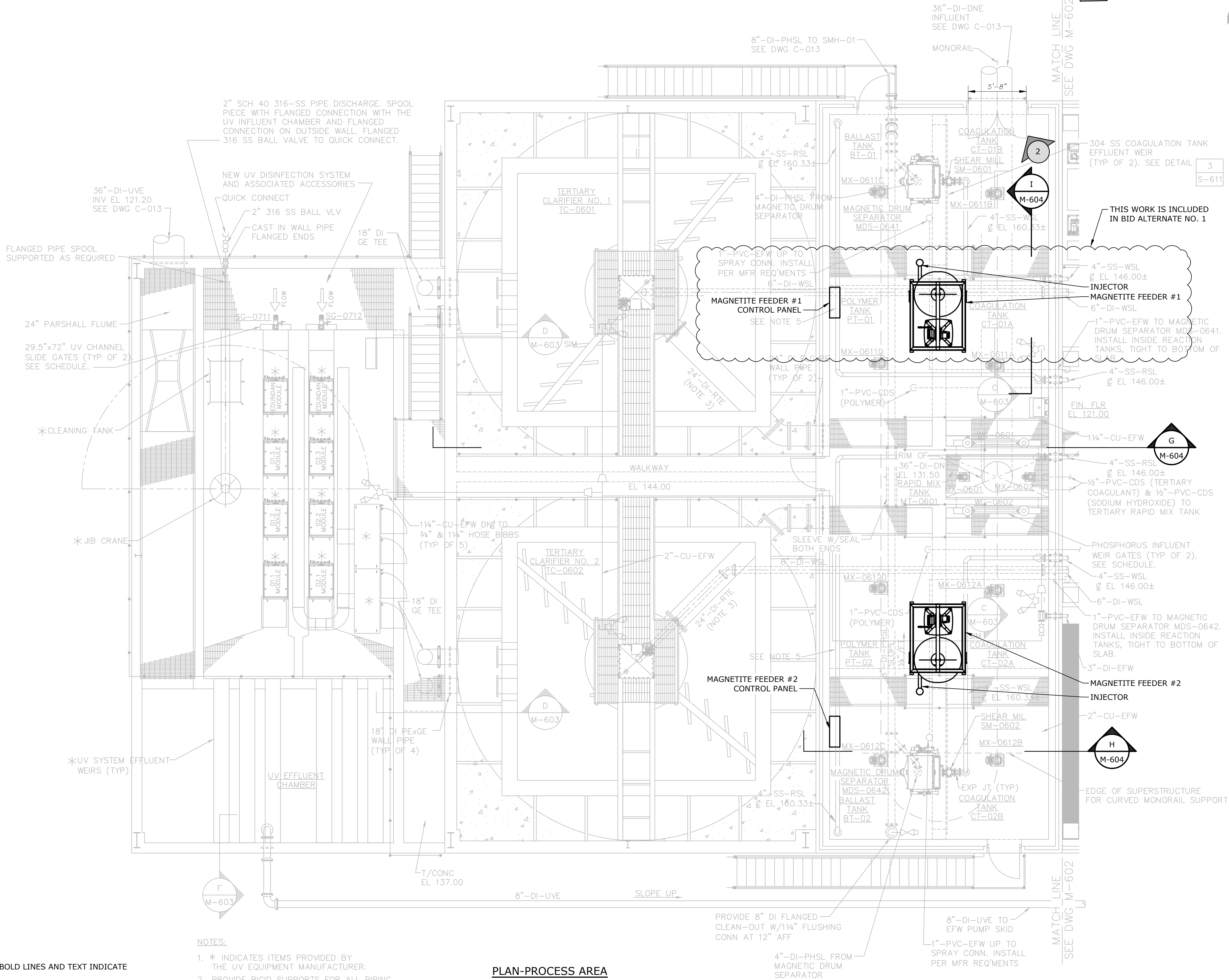
1. LIGHT LINES AND TEXT INDICATE APPROXIMATE EXISTING CONDITIONS. BOLD LINES AND TEXT INDICATE PROPOSED WORK.
2. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO COMMENCEMENT OF WORK.
3. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS
4. DESIGN BASED ON SODIMATE SELF-LOADING BIG BAG UNLOADER. SEE SECTION 14590.
5. THE MAGNETITE FEEDER EQUIPMENT MUST FIT THROUGH THE EXISTING DOORS TO THE BUILDING. THE OWNER'S EXISTING MONORAIL AND HOIST CAN BE UTILIZED FOR EQUIPMENT INSTALLATION. SEE SECTION 01140.
6. COORDINATE CONTROL PANEL LOCATION WITH EXISTING EQUIPMENT.

NOTES:

1. * INDICATES ITEMS PROVIDED BY THE UV EQUIPMENT MANUFACTURER.
2. PROVIDE RIGID SUPPORTS FOR ALL PIPING AND EQUIPMENT.
3. INFLUENT PIPE (24"-DI-RTE) INVERT ELEVATION TO BE COORDINATED WITH PHOSPHORUS VENDOR.
4. ALL PVC PIPING SHALL BE SCHEDULE 80, UNLESS INDICATED OTHERWISE.
5. COORDINATE LOCATION WITH HEATING EQUIPMENT.

PLAN-PROCESS AREA

3/16"=1'-0"



**Water Pollution
Control Plant
Phosphorus
Removal Magnetite
Feeder Project**

Town of Southington,
Connecticut

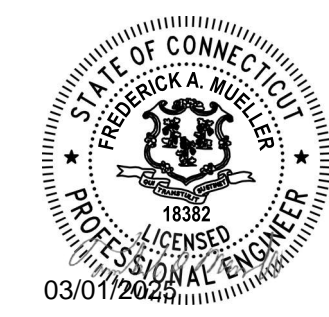
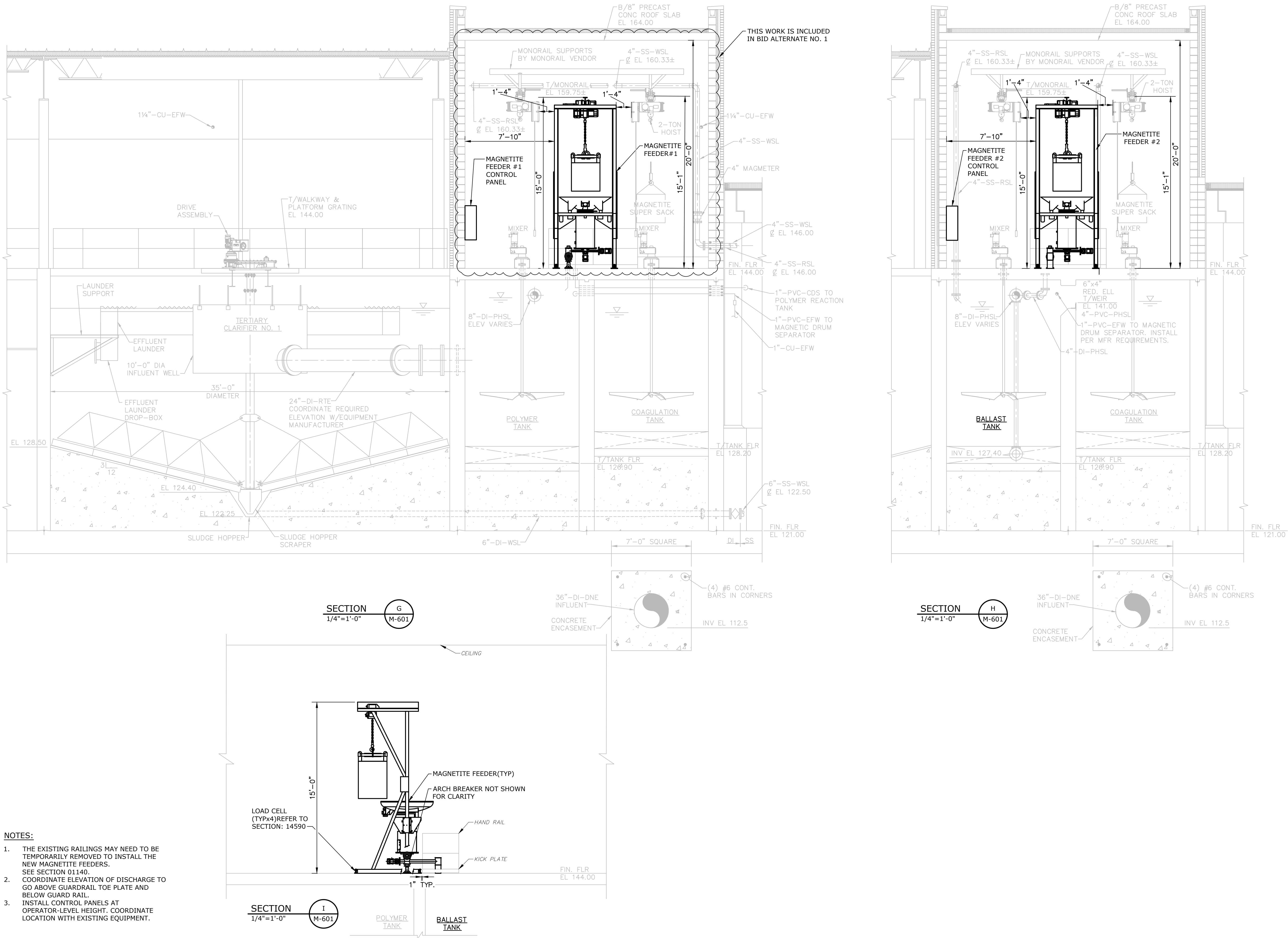
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PROJECT NO:	S-1928/062	
FILE:	M-601	
DRAWN BY:	PML	
CHECKED:	FAM	
APPROVED BY:	SES	

MECHANICAL PLAN PHOSPHORUS
REMOVAL BUILDING - PROCESS
AREA

SCALE: AS SHOWN

M-601
SHEET 2 OF 5

FILENAME: J:\S1928 SOUTHINGTON\062 - MAG HOPPER DRAWINGS\AUTOCAD SHEET\S1928-062-M-604.DWG
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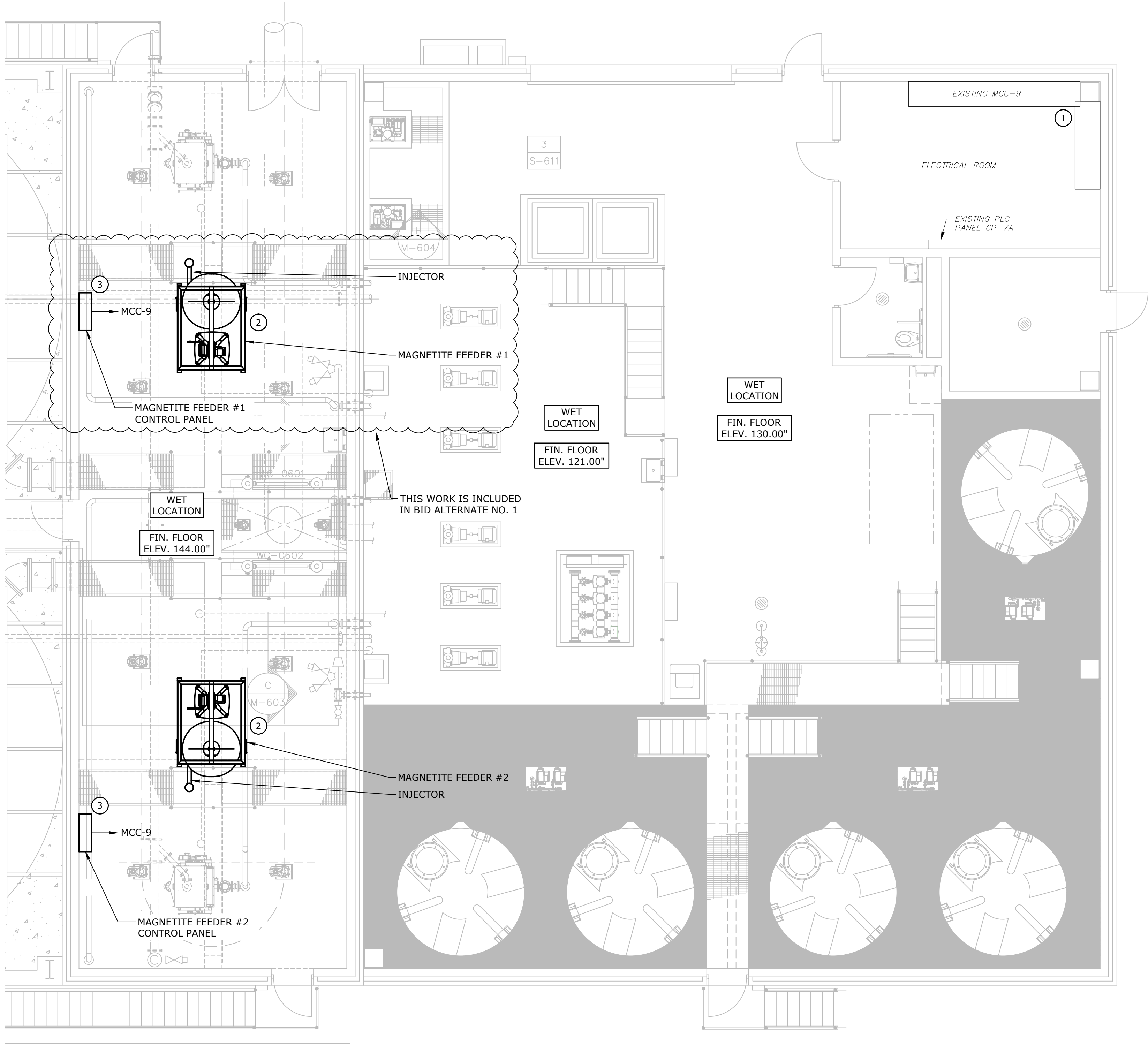


Water Pollution Control Plant Phosphorus Removal Magnetite Feeder Project

Town of Southington,
Connecticut

Mark	Date	Description
PROJECT NO:	S-1928/062	
FILE:	M-604	
DRAWN BY:	PML	
CHECKED:	FAM	
APPROVED BY:	SES	
MECHANICAL SECTIONS - PHOSPHORUS REMOVAL BUILDING		
SCALE:	AS SHOWN	
M-604 SHEET 3 OF 5		

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SAVE DATE: 2/27/2025 9:35 PM
PLOT DATE: 2/27/2025 9:41 PM



KEY NOTES:

- INSTALL A DUAL FEEDER MCC BUCKET WITH 20A, 480V, 3P CIRCUIT BREAKER FOR EACH MAGNETITE FEEDER IN A SPARE MCC BUCKET SPACE. PROVIDE ALL NECESSARY HARDWARE AND ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION. PROVIDE A NEW DOOR FOR THE MCC BUCKET WITH THROUGH-THE-DOOR CIRCUIT BREAKER HANDLES. THE EXISTING MCC IS AN EATON SERIES 2100. SHUTDOWN OF MCC-9 SHALL OCCUR BETWEEN OCTOBER 31 AND MARCH 31 OR BE COORDINATED WITH OWNER TWO WEEKS IN ADVANCE. DISRUPTION OF POWER TO MCC-9 SHALL NOT BE MORE THAN 1.5 HOURS.
- RELOCATE EXISTING LIGHTING FIXTURES ABOVE MAGNETITE FEEDER TO AVOID ANY PHYSICAL CONFLICT. CONFIRM WITH OWNER THE NEW LOCATION OF LIGHTING FIXTURE.
- CONDUITS BETWEEN MAGNETITE FEEDER CONTROL PANEL AND MAGNETITE FEEDER SHALL BE RUN ALONG THE CEILING ABOVE THE MONORAIL. REFER TO DRAWING M-604 FOR ELEVATION DETAILS.

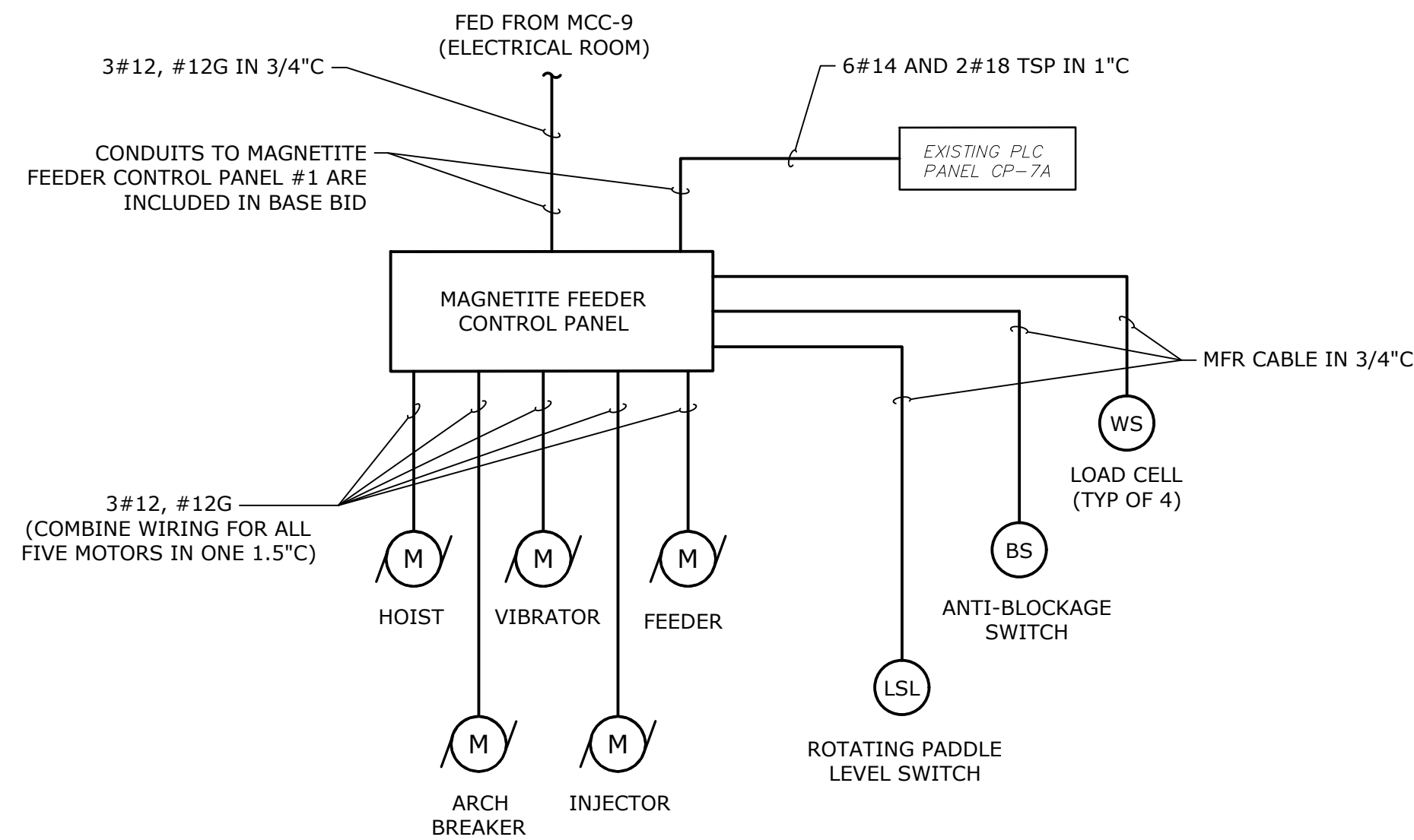
PLAN-PROCESS AREA
3/16"=1'-0"

GENERAL SYMBOLS

- BOLD LINES AND TEXT INDICATE PROPOSED WORK
- LIGHT LINES AND ITALIZED TEXT INDICATE APPROXIMATE EXISTING CONDITIONS
- MCC-9 HOMERUN TO EQUIPMENT. "MCC-9" INDICATES EQUIPMENT ID
- M MOTOR LOAD
- LSL INSTRUMENT OR CONTROL DEVICE. "LSL" INDICATES INSTRUMENT OR DEVICE ID NUMBER/TAG.

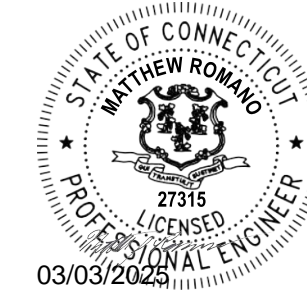
ABBREVIATIONS

#	WIRE SIZE OR IDENTIFICATION NUMBER	MFR	MANUFACTURER
A	AMPERES	P	POLE
AWG	AMERICAN WIRE GAUGE	PH	PHASE
BLDG	BUILDING	PLC	PROGRAMMABLE LOGIC CONTROLLER
C	CONDUIT	SW	SWITCH
CB	CIRCUIT BREAKER	TSP	TWISTED SHIELDED PAIR CABLE
CP	CONTROL PANEL	TYP	TYPICAL
MCC	MOTOR CONTROL CENTER	V	VOLT
MISC	MISCELLANEOUS	W	WATT, WIRE



MAGNETITE FEEDER WIRING DIAGRAM (TYP OF 2)
NO SCALE

0 4' 8' 12'
SCALE: 3/16"=1'-0"



Water Pollution Control Plant Phosphorus Removal Magnetite Feeder Project

Town of Southington,
Connecticut

Mark	Date	Description
PROJECT NO:	S-1928/062	
FILE:	E-601	
DRAWN BY:	AP	
CHECKED:	MJR	
APPROVED BY:	SES	
ELECTRICAL PLAN PHOSPHORUS REMOVAL BUILDING - PROCESS AREA		
SCALE:	AS SHOWN	
E-601 SHEET 5 OF 5		