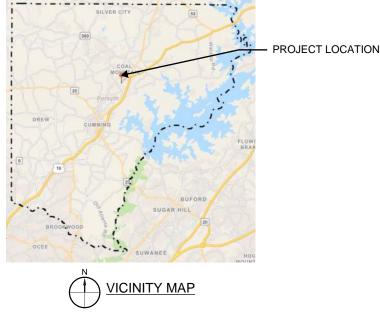
FORSYTH COUNTY ANTIOCH WATER TREATMENT PLANT COATINGS REHAB PHASE 1







DRAWING INDEX 001-G-000 COVER 001-G-001 SITE PLAN 001-G-002 PAINT SCHEDULE 001-G-003 001-G-004 001-PK-006 DETAILS 004-PK-001 PLAN GOOSENECK VENT 004-PK-003 FILTERS PLAN 004-PK-005 BACKWASH RECOVERY BASIN (FACILITY 50)

PREPARED FOR THE

FORSYTH COUNTY WATER AND SEWER DEPARTMENT

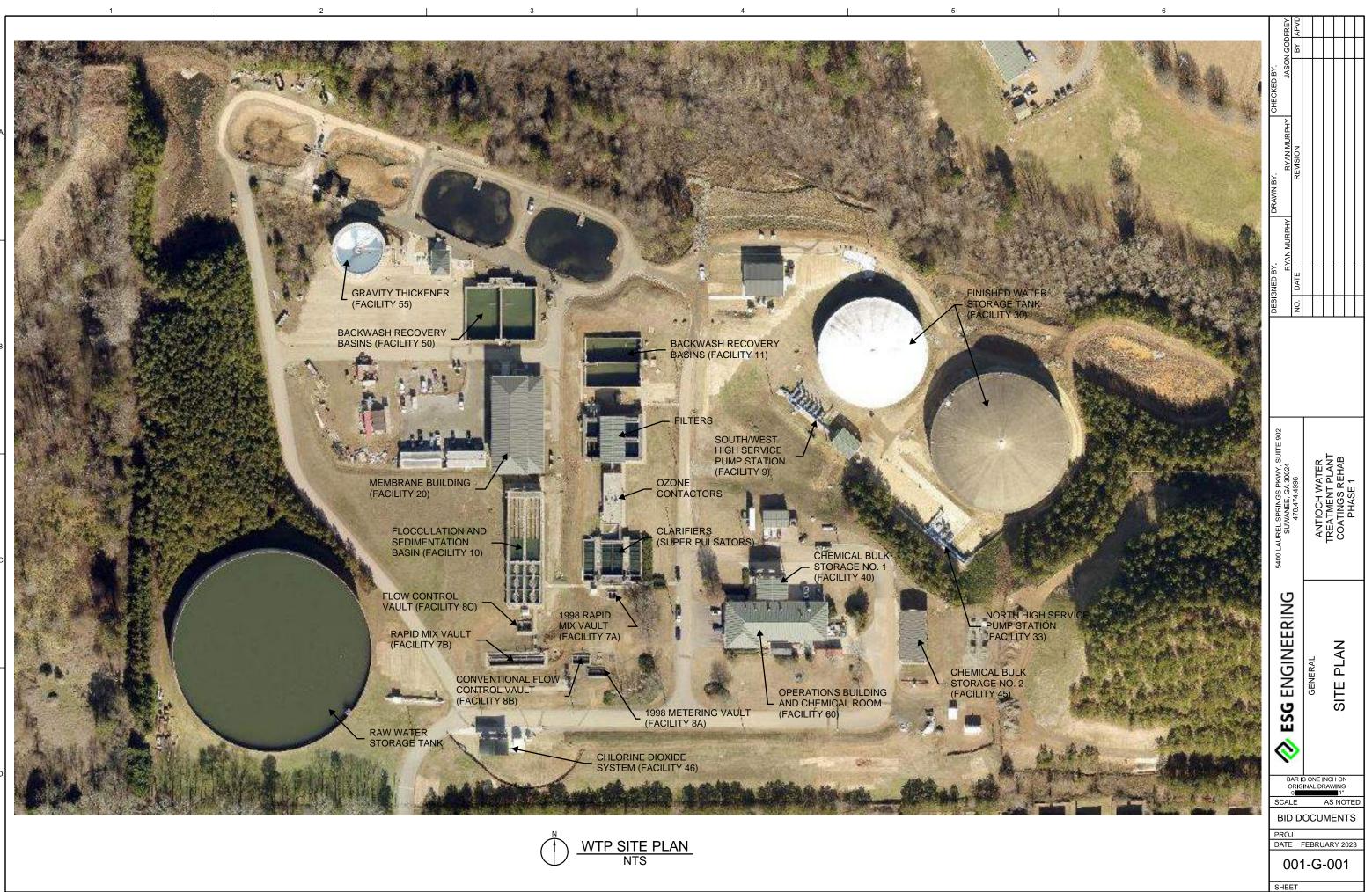
JASON GODFREY, P.E. 5400 LAUREL SPRINGS PKWY, SUITE 902 SUWANEE, GA 30024 (478) 474-4996



BID DOCUMENTS

FEBRUARY 2023 VOLUME 2 OF 2

PROJECT SPECIFICATIONS SHEET 1 PROJECT SPECIFICATIONS SHEET 2 001-PK-001 MEMBRANE BUILDING (FACILITY 20) 001-PK-002 MEMBRANE BUILDING (FACILITY 20) 001-PK-003 MEMBRANE BUILDING (FACILITY 20) 001-PK-004 MEMBRANE BUILDING (FACILITY 20) 001-PK-005 MEMBRANE BUILDING (FACILITY 20) 002-PK-001 1998 RAPID MIX BOX (FACILITY 7A) 002-PK-002 1998 METERING VAULT (FACILITY 8A) 002-PK-003 CONVENTIONAL FLOW CONTROL VAULT (FACILITY 8B) 003-PK-001 RAPID MIX VAULT (FACILITY 7B) 003-PK-002 FLOW CONTROL VAULT (FACILITY 8C) 003-PK-003 FLOCCULATION/SEDIMENTATION BASINS (FACILITY 10) 004-PK-002 CLARIFIERS UPPER/LOWER PLAN 004-PK-004 BACKWASH RECOVERY BASIN (FACILITY 50)



Facility/Drawing	Surface Preparation	# of Coats and Coating Materials	Thickness (MDFT)	Process Fluid	Color	CHEC	ł
Membrane Building Basket Strainer (Facility 20) Drawing 001-PK-002, 001-PK-004, 001-PK-005, 001-PK-006 (Detail 4)	High pressure water blast minimum 3,500 psi. Power tool or hand tool clean any visible rusty areas. Feather all edges. Prior to coating the substrate must be clean, dry, and free of all contaminants.	•Spot Coat (tight rust or bare pipe): Tnemec Series 135 or Equal •1st Coat: Tnemec Series 135 or Equal •2nd Coat: Tnemec Series 1095 or Equal	•Spot Coat (tight rust or bare pipe): Applied at 3-4 mils dry •1st Full Coat: Applied at 3-4 mils dry •2nd Full Coat: Applied at 2-3 mils dry	MF	Tnemec Light Blue 25BL, or Equal	RYAN MURPHY	VISION
Membrane Building Drain Gallery Facility 20) Drawing 001-PK-003, 001-PK-004, 001-PK-006 (Detail 2&3)	High pressure water blast minimum 3,500 psi. Power tool tool clean any visible rusty areas to a SSPC-SP11 standard. Feather all edges. Prior to coating the substrate must be clean, dry, and free of all contaminants.	•Spot Coat (tight rust or bare pipe): Tnemec Series 135 or Equal •1st Coat: Tnemec Series N69F or Equal •2nd Coat: Tnemec Series 104 or Equal	•Spot Coat (tight rust or bare pipe): Applied at 3-4 mils dry •1st Full Coat: Applied at 3-4 mils dry •2nd Full Coat: Applied at 2-3 mils dry	MF/MD	MF: Tnemec Light Blue 25BL, or Equal MD: Tnemec Brown 42BR, or Equal	DRAWN BY:	RE
Membrane Building Permeate Gallery Couplings (Facility 20) Drawing 001-PK-004, 001-PK-006 Detail 1)	High pressure water blast minimum 3,500 psi. Power tool or hand tool clean any visible rusty areas. Feather all edges. Prior to coating the substrate must be clean, dry, and free of all contaminants.	•Spot Coat (tight rust or bare pipe): Tnemec Series 135 or Equal •1st Coat: Tnemec Series 135 or Equal •2nd Coat: Tnemec Series 1095 or Equal	 Spot Coat (tight rust or bare pipe): Applied at 3-4 mils dry 1st Full Coat: Applied at 3-4 mils dry 2nd Full Coat: Applied at 2-3 mils dry 	MP	Tnemec Light Blue 25BL, or Equal	D BY: RYAN <u>MURP</u> -	TE
1998 Rapid Mix Box (Facility 7A) Drawing 002-PK-001	Abrasive sweep blast to a SSPC-SP7 standard. Prior to coating the substrate must be clean, dry, and free of all contaminants.	 •1st Full Coat: Tnemec Series 135 or Equal •2nd Full Coat: Tnemec Series N69F or Equal •3rd Full Coat: Tnemec Series 1095 or Equal 	 1st Full Coat: Applied at 3-4 mils dry 2nd Full Coat: Applied at 2-4 mils dry 3rd Full Coat: Applied at 2-3 mils dry 	RW	Tnemec Buff 66BR, or Equal	DESIGNE	NO. DA
1998 Metering Vault (Facility 8A) Drawing 002-PK-002	Abrasive sweep blast to a SSPC-SP7 standard. Prior to coating the substrate must be clean, dry, and free of all contaminants.	 •1st Full Coat: Tnemec Series 135 or Equal •2nd Full Coat: Tnemec Series N69F or Equal •3rd Full Coat: Tnemec Series 1095 or Equal 	•1st Full Coat: Applied at 3-4 mils dry •2nd Full Coat: Applied at 2-4 mils dry •3rd Full Coat: Applied at 2-3 mils dry	RW	Tnemec Buff 66BR, or Equal		
Conventional Flow Control Vault Facility 8B) Drawing 002-PK-003	Abrasive sweep blast to a SSPC-SP7 standard. Prior to coating the substrate must be clean, dry, and free of all contaminants.	 •1st Full Coat: Tnemec Series 135 or Equal •2nd Full Coat: Tnemec Series N69F or Equal •3rd Full Coat: Tnemec Series 1095 or Equal 	•1st Full Coat: Applied at 3-4 mils dry •2nd Full Coat: Applied at 2-4 mils dry •3rd Full Coat: Applied at 2-3 mils dry	RW	Tnemec Buff 66BR, or Equal		
Rapid Mix Vault (Facility 7B) Drawing 003-PK-001	High pressure water blast minimum 3,500 psi. Power tool or hand tool clean any visible rusty areas. Feather all edges. Prior to coating the substrate must be clean, dry, and free of all contaminants.	•Spot Coat (tight rust or bare pipe): Tnemec Series 135 or Equal •1st Coat: Tnemec Series 135 or Equal •2nd Coat: Tnemec Series 1095 or Equal	•Spot Coat (tight rust or bare pipe): Applied at 3-4 mils dry •1st Full Coat: Applied at 3-4 mils dry •2nd Full Coat: Applied at 2-3 mils dry	RW	Tnemec Buff 66BR, or Equal	SUITE 902	
Flow Control Vault (Facility 8C) Drawing 003-PK-002	Abrasive sweep blast to a SSPC-SP7 standard. Prior to coating the substrate must be clean, dry, and free of all contaminants.	 •1st Full Coat: Tnemec Series 135 or Equal •2nd Full Coat: Tnemec Series N69F or Equal •3rd Full Coat: Tnemec Series 1095 or Equal 	•1st Full Coat: Applied at 3-4 mils dry •2nd Full Coat: Applied at 2-4 mils dry •3rd Full Coat: Applied at 2-3 mils dry	RW	Tnemec Buff 66BR, or Equal	PRINGS PKWY, S ANEE, GA 30024	474.4996
Sedimentation Basin (Facility 10) Drawing 003-PK-003	High pressure water blast minimum 3,500 psi. Power tool or hand tool clean any visible rusty areas. Feather all edges. Prior to coating the substrate must be clean, dry, and free of all contaminants.	 Spot Coat (tight rust or bare pipe): Tnemec Series 135 or Equal 1st Coat: Tnemec Series 135 or Equal 2nd Coat: Tnemec Series 1095 or Equal 	 Spot Coat (tight rust or bare pipe): Applied at 3-4 mils dry 1st Full Coat: Applied at 3-4 mils dry 2nd Full Coat: Applied at 2-3 mils dry 	RSD	Tnemec Brown 42BR, or Equal	5400 LAUREL SPRI	478.
Gooseneck Vent Drawing 004-PK-001	High pressure water blast minimum 3,500 psi. Power tool or hand tool clean any visible rusty areas. Feather all edges. Prior to coating the substrate must be clean, dry, and free of all contaminants.	 Spot Coat (tight rust or bare pipe): Tnemec Series 135 or Equal 1st Coat: Tnemec Series 135 or Equal 2nd Coat: Tnemec Series 1095 or Equal 	•Spot Coat (tight rust or bare pipe): Applied at 3-4 mils dry •1st Full Coat: Applied at 3-4 mils dry •2nd Full Coat: Applied at 2-3 mils dry	VENT	Tnemec Brown 42BR, or Equal		┢
Clarifiers (Super Pulsators) Drawing 004-PK-002	High pressure water blast minimum 3,500 psi. Power tool or hand tool clean any visible rusty areas. Feather all edges. Prior to coating the substrate must be clean, dry, and free of all contaminants.	•Spot Coat (tight rust or bare pipe): Tnemec Series 135 or Equal •1st Coat: Tnemec Series 135 or Equal •2nd Coat: Tnemec Series 1095 or Equal	•Spot Coat (tight rust or bare pipe): Applied at 3-4 mils dry •1st Full Coat: Applied at 3-4 mils dry •2nd Full Coat: Applied at 2-3 mils dry	Actuators	Tnemec Light Blue 25BL, or Equal	ENGINEERING	
Filters Drawing 004-PK-003	High pressure water blast minimum 3,500 psi. Power tool or hand tool clean any visible rusty areas. Feather all edges. Prior to coating the substrate must be clean, dry, and free of all contaminants.	•Spot Coat (tight rust or bare pipe): Tnemec Series 135 or Equal •1st Coat: Tnemec Series 135 or Equal •2nd Coat: Tnemec Series 1095 or Equal	•Spot Coat (tight rust or bare pipe): Applied at 3-4 mils dry •1st Full Coat: Applied at 3-4 mils dry •2nd Full Coat: Applied at 2-3 mils dry	OZW/Actuators	OZW: Tnemec Light Blue 25BL, or Equal Actuators: Match Service - OZW: Tnemec Light Blue 25BL, or Equal Dr: Tnemec Brown 42BR, or Equal	ESG ENG	
Backwash Recovery Basin Facility 50) Drawing 004-PK-004, 004-PK-005	High pressure water blast minimum 3,500 psi. Power tool or hand tool clean any visible rusty areas. Feather all edges. Prior to coating the substrate must be clean, dry, and free of all contaminants.	•Spot Coat (tight rust or bare pipe): Tnemec Series 135 or Equal •1st Coat: Tnemec Series 135 or Equal •2nd Coat: Tnemec Series 1095 or Equal	 Spot Coat (tight rust or bare pipe): Applied at 3-4 mils dry 1st Full Coat: Applied at 3-4 mils dry 2nd Full Coat: Applied at 2-3 mils dry 	RCY	Tnemec Light Brown 51BR, or Equal	ې ۲	

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	PART 1 - GEN 1.0 DEFINITIO A. Surface Pre		ons)
	IDENTIFIER	PREPARATION PROCESS	SURFACE PREPARATION
А	SP 1	Solvent Cleaning	Remove visible oil, grease, soil, drawing and cutting compounds, and other soluble contaminants by cleaning with solvent
	SP 2	Hand Tool Cleaning	Remove loose rust, loose mill scale, loose paint, and other loose detrimental foreign matter, using nonpower hand tools
	SP 3	Power Tool Cleaning	Remove loose rust, loose mill scale, loose paint, and other loose detrimental foreign matter, using power-assisted hand tools
_	SP 5	White Metal Blast Cleaning	Remove visible oil, grease, dust, dirt, mill scale, rust, coatings, oxides, corrosion products, and other foreign matter by blast cleaning
в	SP 6	Commercial Blast Cleaning	Remove visible oil, grease, dust, dirt, mill scale, rust, coatings, oxides, corrosion products, and other foreign matter, except for random staining limited to no more than 33 percent of each area of surface which may consist of light shadows, slight streaks, or minor discolorations caused by stains of rust, stains of mill scale, or stains of previously applied coatings
	SP 7	Brush-Off Blast Cleaning	Remove visible rust, oil, grease, soil, dust, loose mill scale, loose rust, and loose coatings. Tightly adherent mill scale, rust, and coatings may remain on surface
_	SP 10	Near White Blast Cleaning	Remove visible oil, grease, dust, dirt, mill scale, rust, coatings, oxides, corrosion products, and other foreign matter, except for random staining limited to no more than 5 percent of each unit area of surface which may consist of light shadows, slight streaks, or minor discolorations caused by stains of rust, stains of mill scale, or stains of previously applied coatings
с	SP 11	Power Tool Cleaning to Bare Metal	Remove visible oil, grease, dirt, mill scale, rust, paint, oxide, corrosion products, and other foreign matter using power assisted hand tools capable of producing suitable surface profile. Slight residues of rust and paint may be left in lower portion of pits if original surface is pitted

B. Product Definitions

- 1					
	PAINT OR COATING	DESCRIPTION			
	Bituminous Paint	Coal-tar pitch based coating			
-	Coal Tar Epoxy	Amine, polyamide, or phenolic epoxy type 70% volume solids minimum, suitable for submerged service			
	Epoxy Primer (Ferrous Metal)	Anticorrosive, converted epoxy primer containing rust inhibitive pigments			
D	Epoxy (High Build)	Polyamidoamine epoxy, minimum 69% volume solids with the ability to apply between 4 to 8 MDFT per coat.			
	Epoxy (Chemical Resistant)	Chemical resistant epoxy that is amine cured, suitable for air space and submersion in wastewater.			
	Epoxy (Water Based)	Polyamide epoxy emulsion, two components			
	Polyurethane Enamel	Aliphatic or acrylic based polyurethane with high gloss finish; two components			

1.1 QUALITY ASSURANCE

A.Coatings applicator shall have a minimum of 5-years of exp

1.2 SUBMITTALS

A. The following submittals shall be provided for Engineer rev

- 1. For each product:
 - a. Paint system (as identified in the specifications)
 - b. Manufacturer's technical data sheets
 - c. Manufacturer's color charts
 - d. Minimum number of coats and coverage
 - e. Induction time
 - f. Pot life
 - g. Shelf life
 - h. Drying time
 - i. Curing time
 - j. Minimum recoat time
 - k. Maximum recoat time
 - I. Surface temperature requirements
 - m. Ambient temperature requirements

B. The following submittals shall be provided to Engineer for

- 1. Manufacturer's written instructions for coating system appli
- 2. Membrane tank coatings:

a. Manufacturer's letter stating coating is appropriate for the coating

b. Manufacturer's approval of installation

3. Coating applicator's qualifications

1.3 ENVIRONMENTAL REQUIREMENTS

A. Coating products shall be stored in a climate controlled en recommended temperature range.

B. Applicator shall follow manufacturer's recommendations for conditions are outside of the manufacturer's recommendation

C. Final abrasive blast cleaning shall not be performed when a surface temperature is below $5^\circ\,\text{F}$ above the dew point of amb

D. Exterior surfaces shall receive the top coat within 2-month

PART 2 – PRODUCTS 2.0 GENERAL

A. Only compatible products from a single manufacturer shall suitable by manufacturer for use in combination.

2.1 MULTIPLE COMPONENT COATINGS

- A. Follow manufacturer's instructions for mixing.
- B. Discard multiple component coatings that have been mixed
- C. Small quantity kits shall be provided for touch-up painting.

2.2 SHOP FINISHES

A. When manufacturer does not provide a shop coating that is shall be utilized and the equipment shall receive a specified fir coat with the coating manufacturers and obtain Engineer's ap

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or temperature and humidity conditions. If	tel Springs pKWY, suwanee, ga 30024	47	ANTIOCH WATER REATMENT PLAN SOATINGS REHAE PHASE 1
ns, the coating system shall not be applied.	00 LAUREL SPRINGS PKWY, SUITE 902 SUWANEE, GA 30024		ARO
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is suitable for the service condition, a tie-in coat ield finish. Contractor shall coordinate the tie-in	PRO		
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PART 2 – PRODUCTS CONT. 2.3 MANUFACTURERS	CONTRACTOR WARRANTY
A. Manufacturers shall have a minimum of 5-years experience producing the specified and submitted products.	A. Contractor shall warranty the project for a period of one yea Completion.
B. The following manufacturers have products for most of the products specified herein:	B. The warranty assures the Work is free from all defects due Contractor shall promptly make corrections as needed to resol
1. TNEMEC 2. Carboline 3. Or Engineer Approved Equal	C. Contractor's performance bond shall remain in effect throug initiate repair within 14-days or fails to timely complete the war repairs and charge Contractor for costs to do so.
C. Warranty 1. Manufacturer warranties shall commence when the equipment has successfully passed all specified testing and efficielly put into full commence when the equipment has successfully passed all specified	D. Contractor's warranty includes all labor, materials, tools, an
 testing and officially put into full service or substantial completion of the project, whichever is sooner. 2. Manufacturer's warranty shall be the standard warranty period or for a period of 1-year, whichever is greater; unless specified differently in the individual specification section. 	E. If two or more successive failures of the same type with a p to the expiration of the one year warranty, the Work or equipm a new one year warranty shall apply to said Work or equipmer
 PART 3 – EXECUTION 3.0 INSPECTIONS A. Contractor shall provide a minimum of 7-days notice before surface preparation and coatings work. 	F. Contractor shall not be obligated to repair or replace non-fu non-functioning or damaged Work is a result of normal wear a improper use, or damaged by the Owner.
B. Contractor shall arrange for Engineer's inspection following surface preparation and between each coat.	GENERAL NOTES
C. All coatings work shall be performed with Engineer's inspector present, unless approval otherwise has been	A. Where required, Contractor shall control the humidity in ord
obtained from Engineer. D. Shop finished repair items shall be inspected by Engineer prior to starting repair.	B. The Contractor shall provide spare paint and leave on site f
3.1 PROTECTION OF SURROUNDING ITEMS	C. The coatings Contractor shall coordinate with the Owner ar Expansion in order to avoid conflicts.
A. Contractor shall remove or protect areas not to receive coating, such as hardware, light switch plates/outlet covers, lighting fixtures, and mechanical components (machined surfaces, bearings, shafts, etc.).	D. Work Restrictions: Contractor shall coordinate with Enginee coated and should any piping need to be drained prior to coati
B. Openings in motors shall be masked to prevent coatings materials from entering the motor.	
C. Protect surrounding areas from overspray.	
3.2 COATING COLORS	
A. Piping: Exposed piping as shown in the Paint Schedule on sheet 001-G-002 in this drawing set.	
B. Other Areas: As approved by the Owner.	
3.3 FIELD QUALITY CONTROL	
 A. Coating thickness shall be measured in mils with a magnetic or electronic style dry film thickness gage in accordance with Society for Protective Coatings, PA 2. a. Each coat shall be checked for correct mils b. Measurement shall not be made until a minimum of 8-hours following application. 	
 B. Holiday detect all new coatings in accordance with NACE SP0188. a. Coatings 20 mils and less shall be conducted with a low voltage wet sponge electrical holiday detector b. Coatings greater than 20 mils (dry) shall be conducted with a high voltage spark tester 	
C. Any found defects shall be repaired in accordance with manufacturer's written recommendations and as approved by Engineer.	

RYAN MURPHY WN B RYAN MURPHY 5400 LAUREL SPRINGS PKWY, SUITE 902 SUWANEE, GA 30024 ANTIOCH WATER TREATMENT PLANT COATINGS REHAB PHASE 1 \sim **ESG** ENGINEERING GENERAL PROJECT SPECIFICATIONS SHEET 0 BAR IS ONE INCH ON ORIGINAL DRAWING 1' AS NOTED **BID DOCUMENTS** PROJ DATE FEBRUARY 2023 001-G-004

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ue to faulty products or workmanship and the solve such defects within the warranty period.

ough the warranty period and if Contractor fails to warranty related items, Owner may choose to make

and equipment to make repairs.

a particular area of Work or equipment occur prior oment shall be completely rebuilt or replaced and nent.

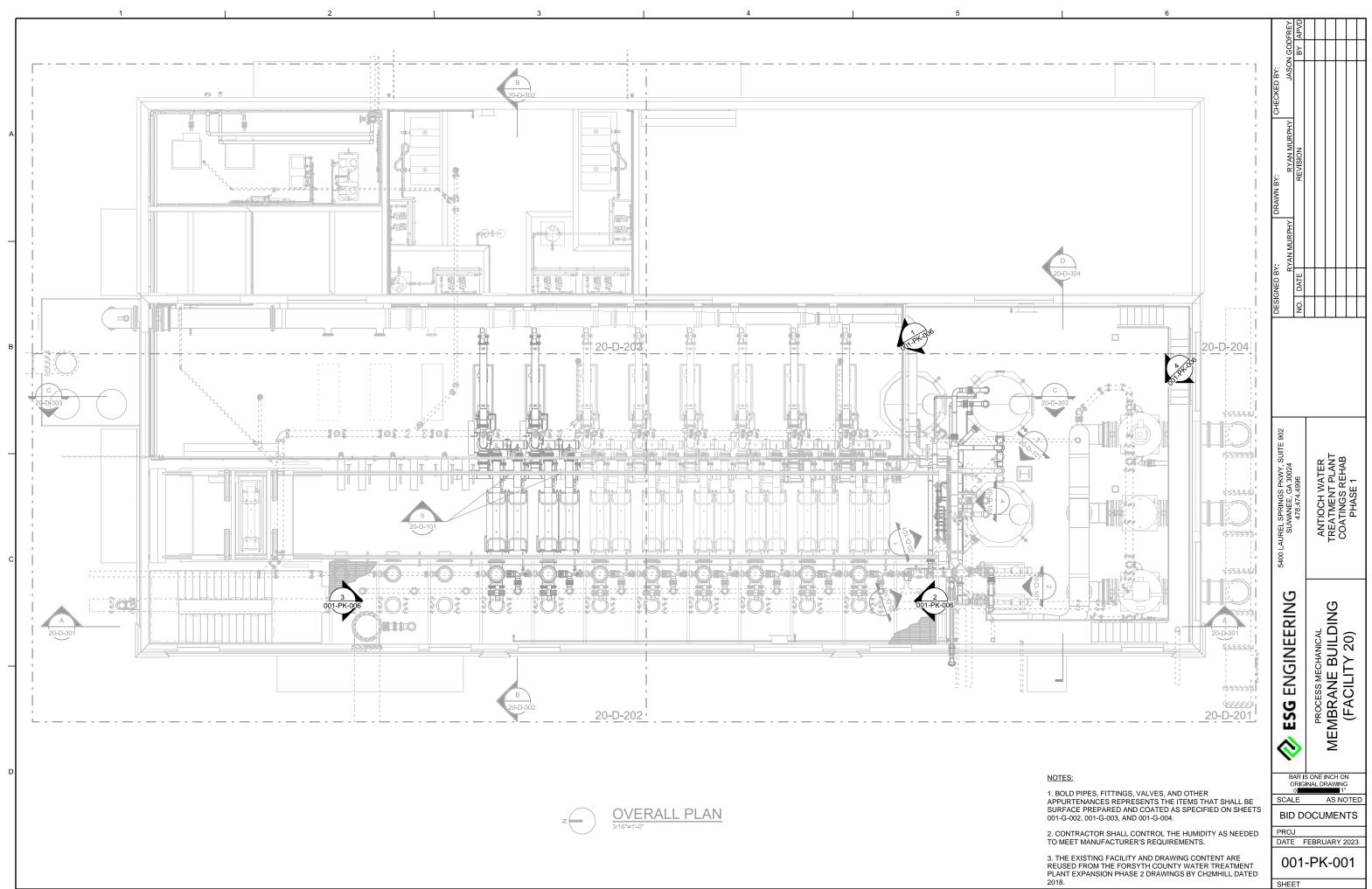
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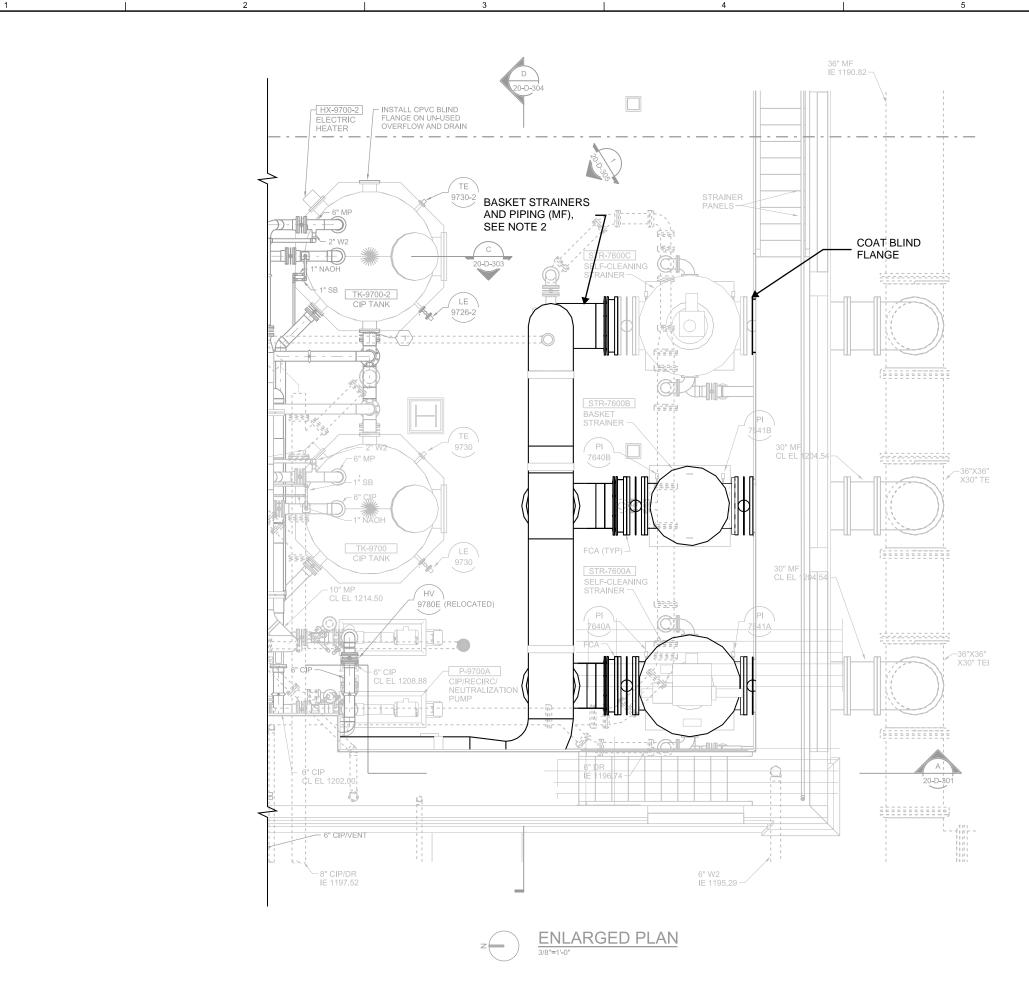
order to meet Manufacturer's requirements.

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and the Contractor of the Phase 3 Plant

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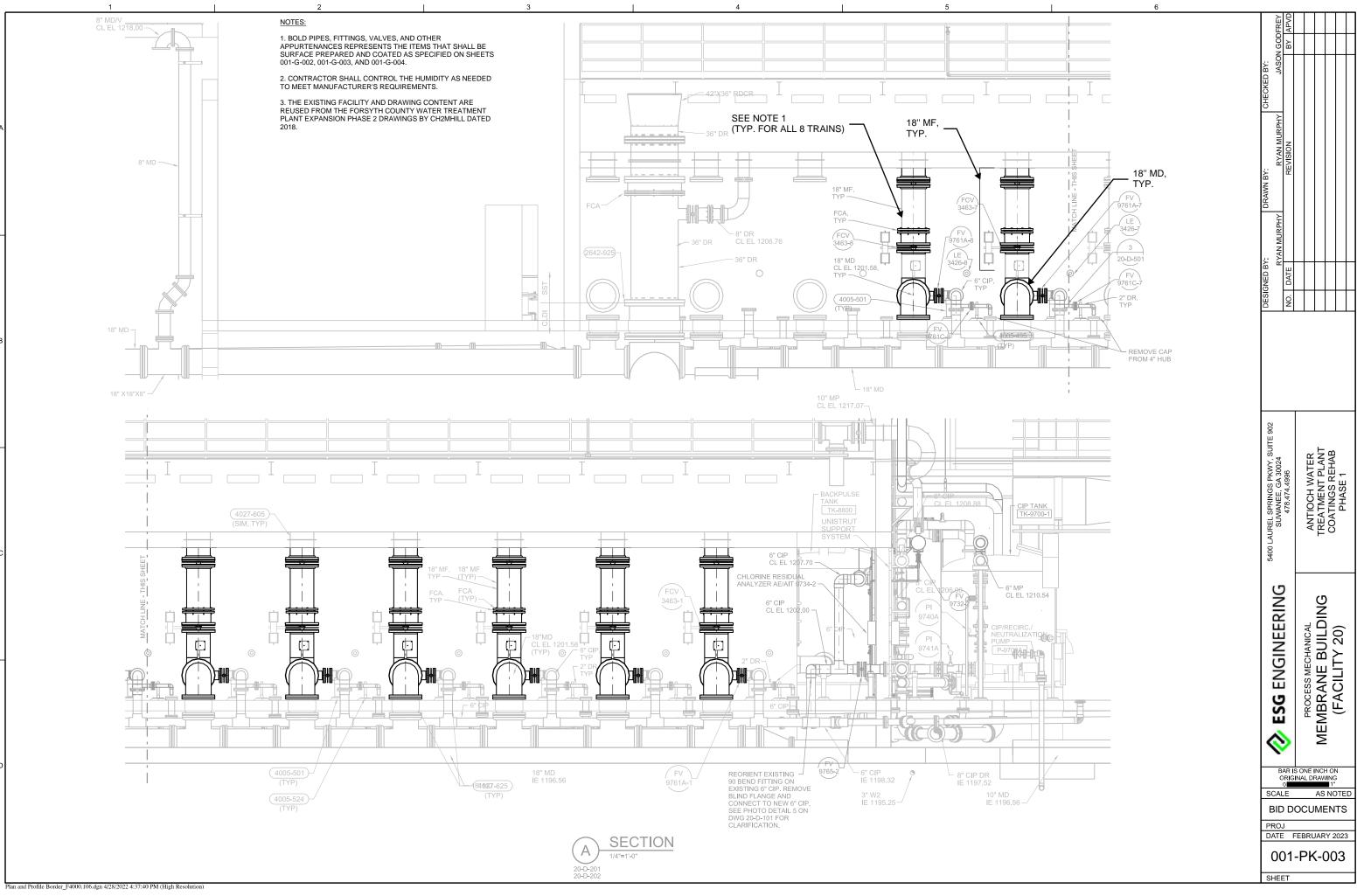
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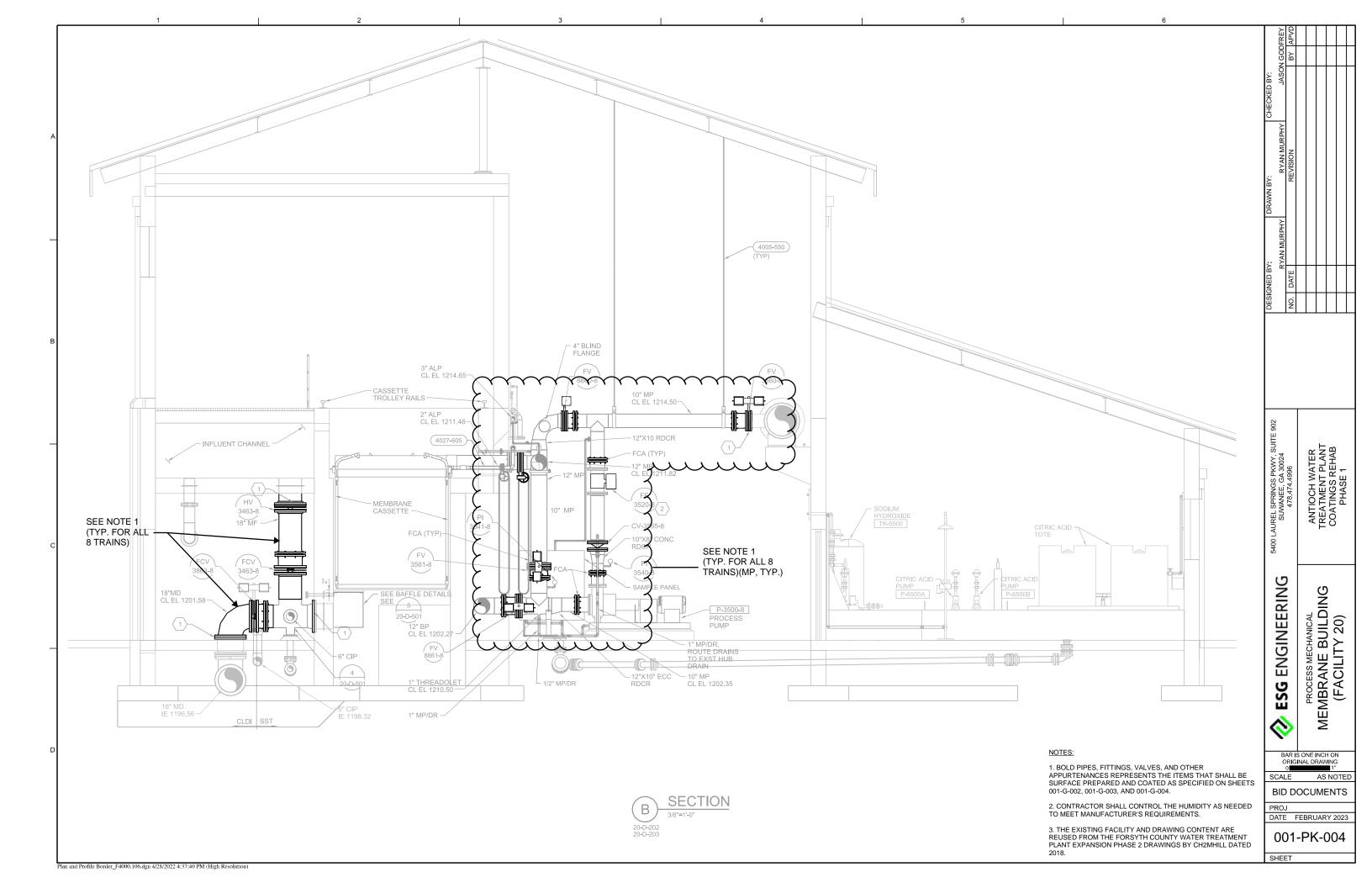
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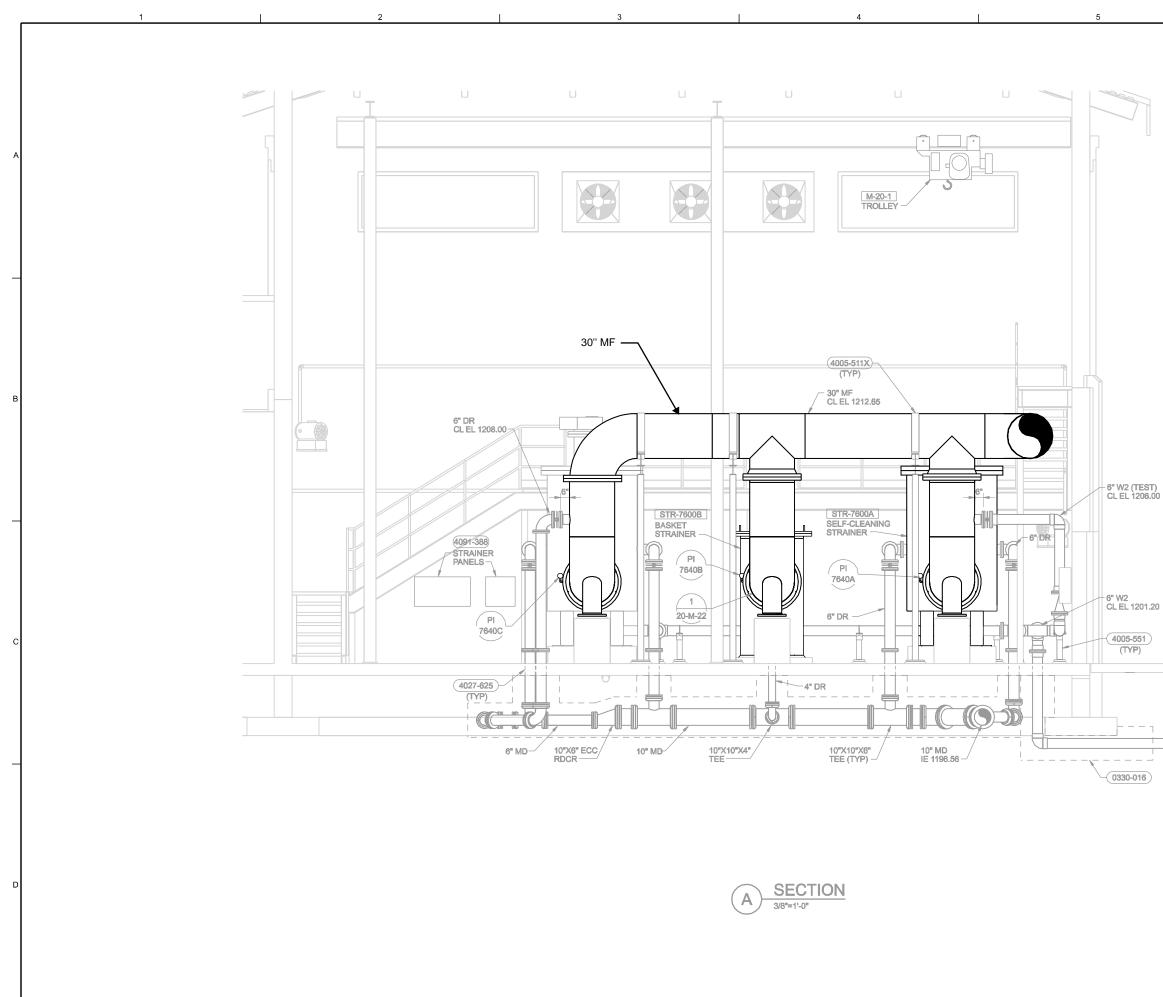
1. BOLD PIPES, FITTINGS, VALVES, AND OTHER APPURTENANCES REPRESENTS THE ITEMS THAT SHALL BE SURFACE PREPARED AND COATED AS SPECIFIED ON SHEETS 001-G-002, 001-G-003, AND 001-G-004.

2. CONTRACTOR SHALL CONTROL THE HUMIDITY AS NEEDED TO MEET MANUFACTURER'S REQUIREMENTS.

3. THE EXISTING FACILITY AND DRAWING CONTENT ARE REUSED FROM THE FORSYTH COUNTY WATER TREATMENT PLANT EXPANSION PHASE 2 DRAWINGS BY CH2MHILL DATED 2018.







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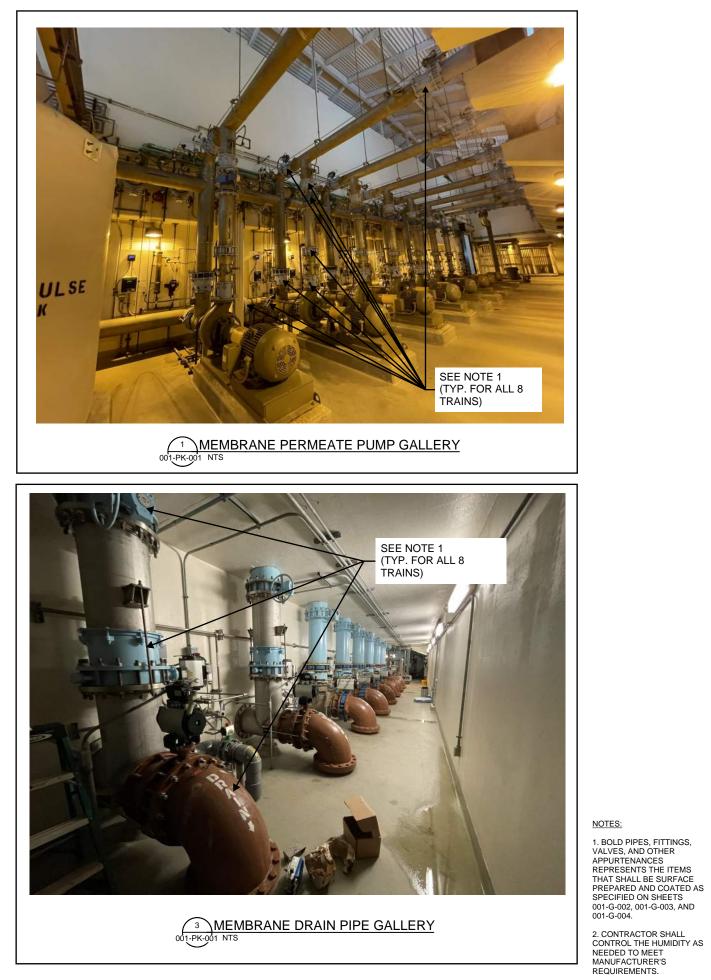
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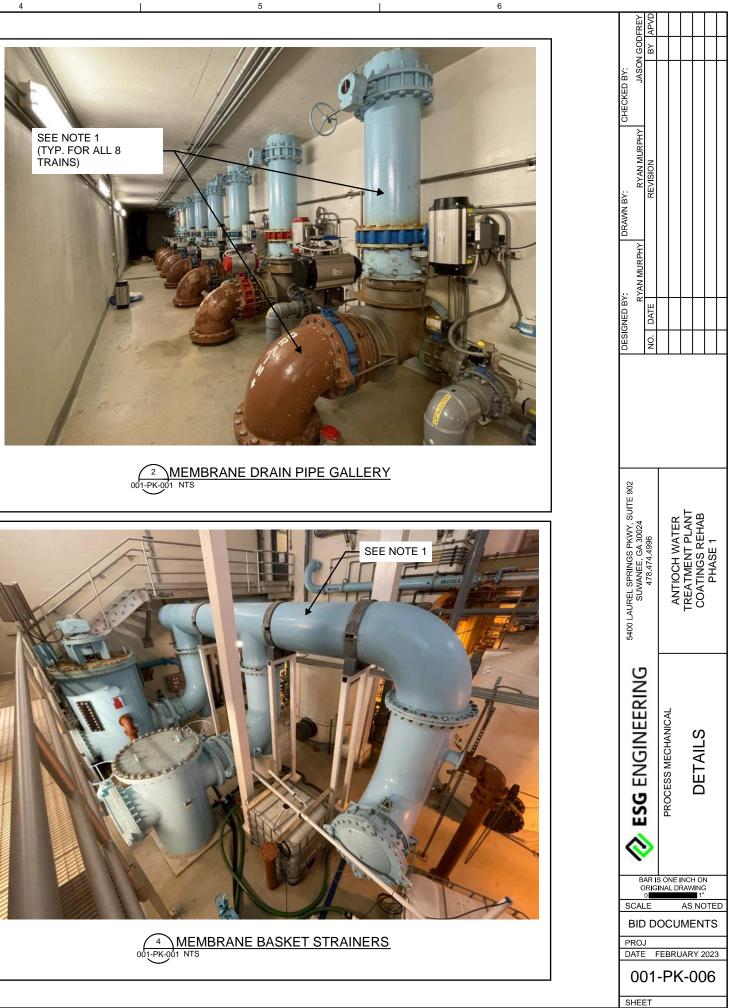
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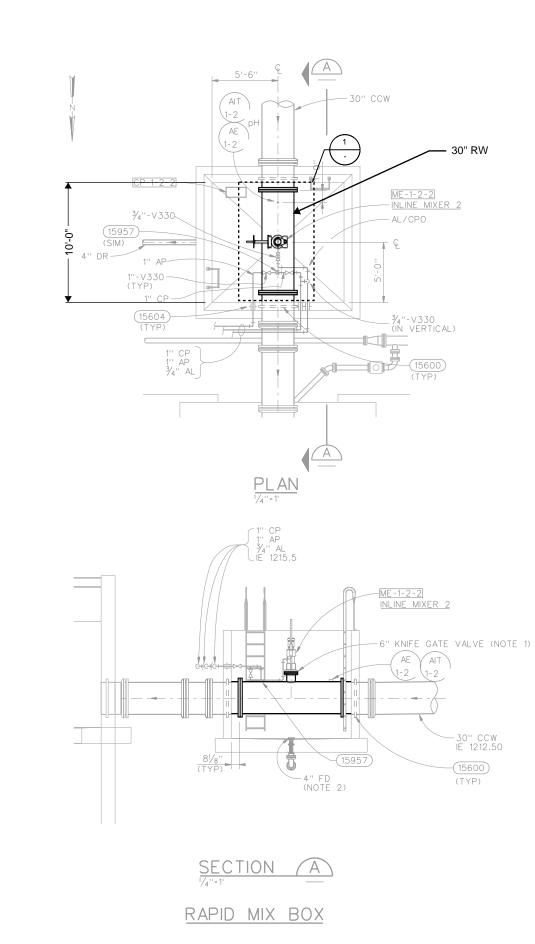
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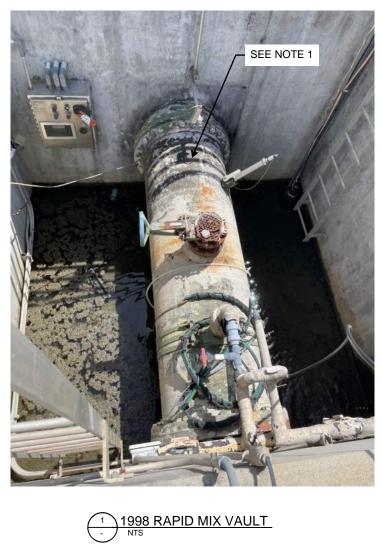
3. THE EXISTING FACILITY AND DRAWING CONTENT ARE REUSED FROM THE FORSYTH COUNTY WATER TREATMENT PLANT EXPANSION PHASE 1 DRAWINGS BY CH2MHILL DATED 2010.







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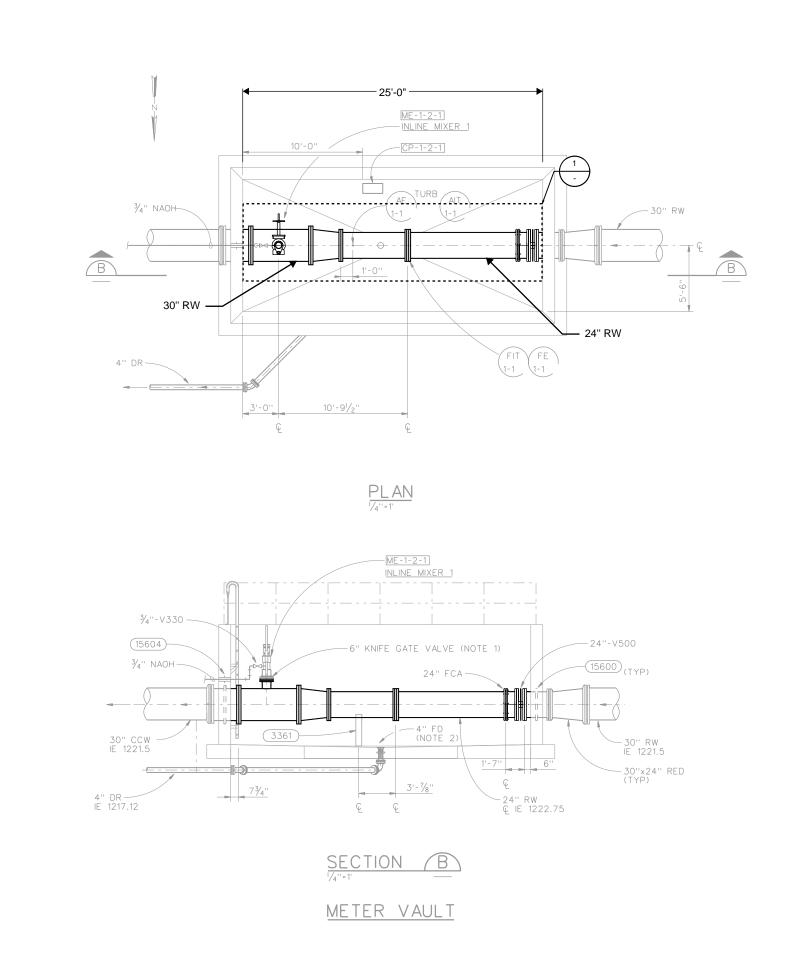


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1. BOLD PIPES, FITTINGS, VALVES, AND OTHER APPURTENANCES REPRESENTS THE ITEMS THAT SHALL BE SURFACE PREPARED AND COATED AS SPECIFIED ON SHEETS 001-G-002, 001-G-003, AND 001-G-004.

2. THE EXISTING FACILITY AND DRAWING CONTENT ARE REUSED FROM THE FORSYTH COUNTY WATER TREATMENT PLANT DRAWINGS BY CH2MHILL DATED 1998.

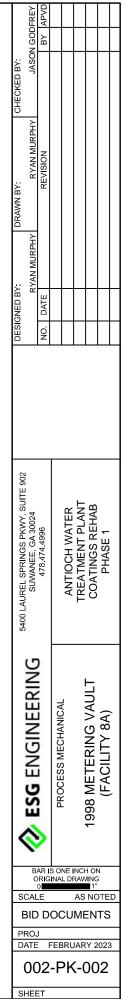


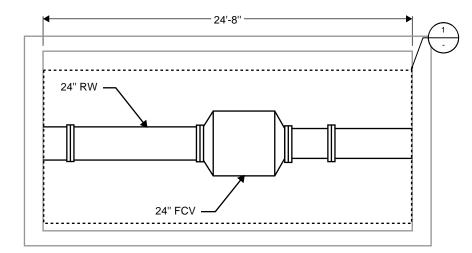


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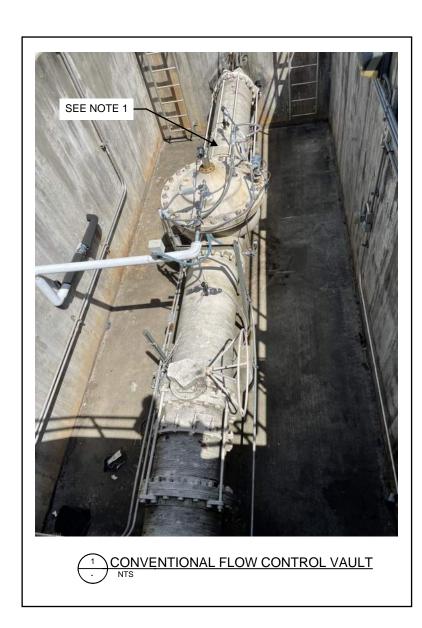
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CONVENTIONAL FLOW CONTROL VAULT



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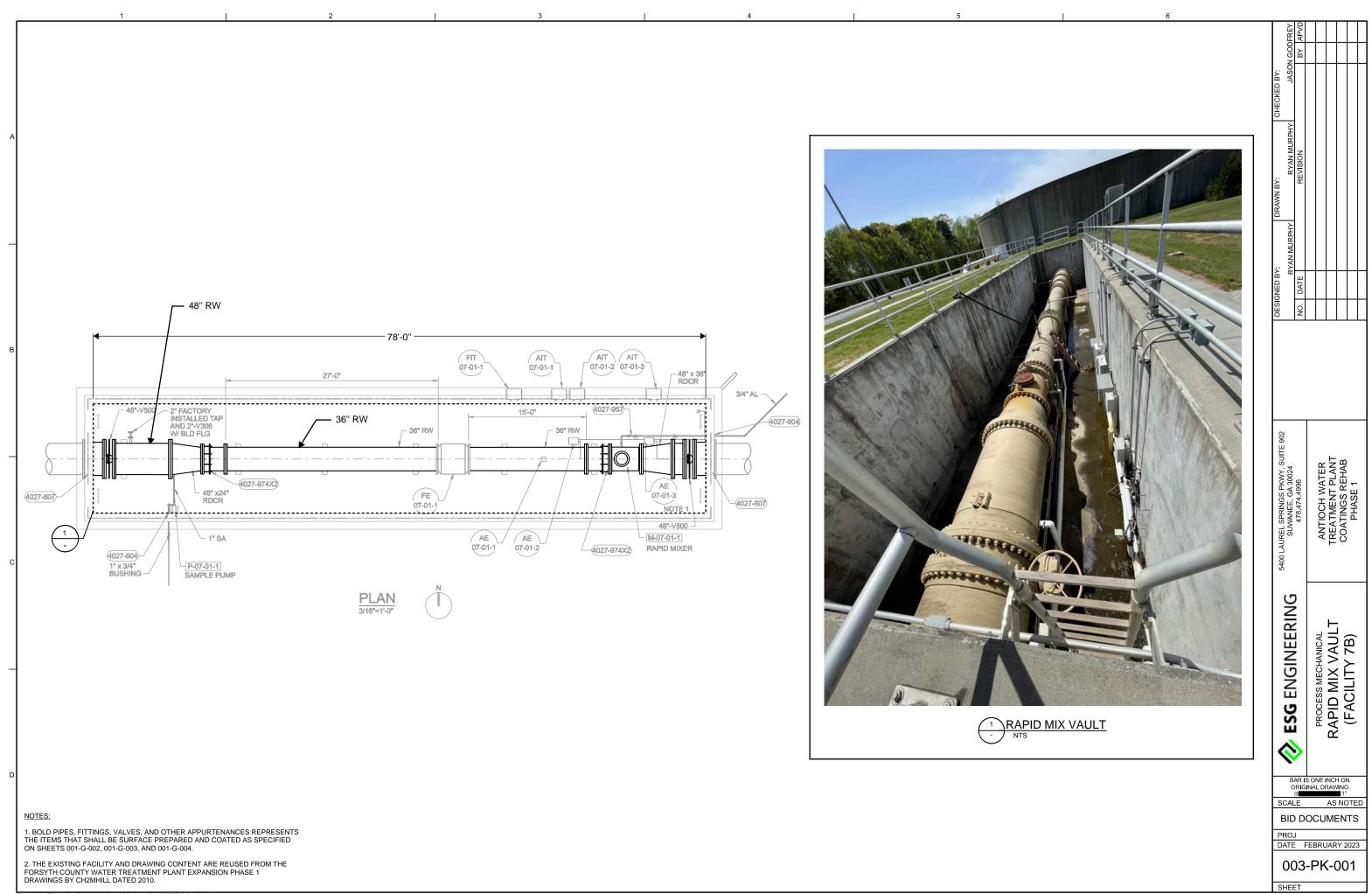
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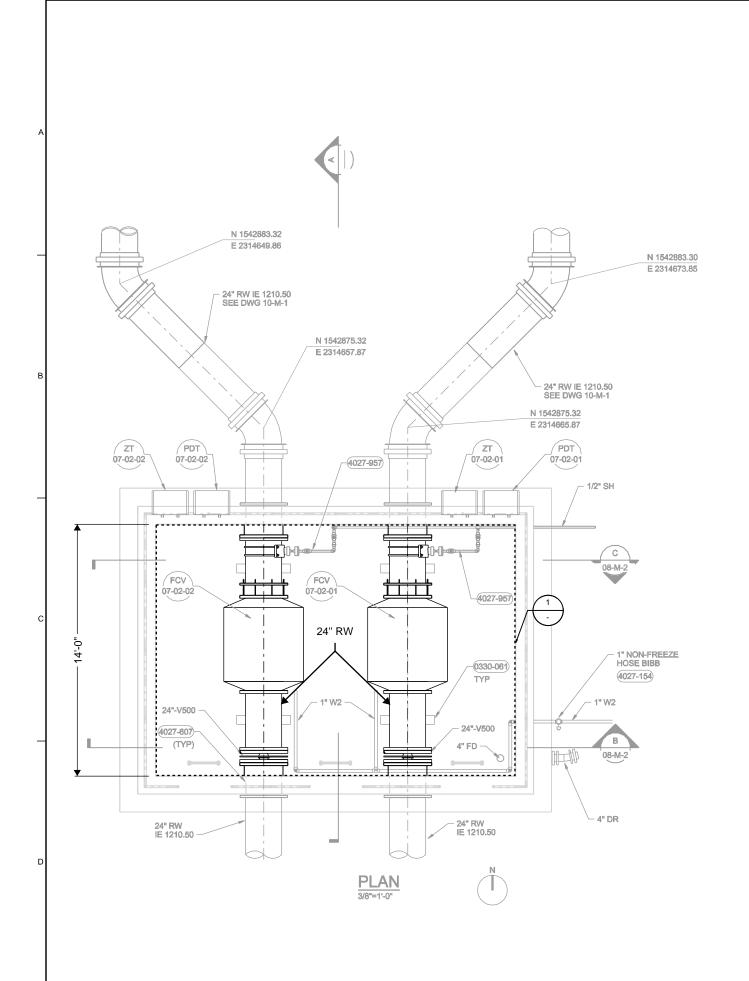
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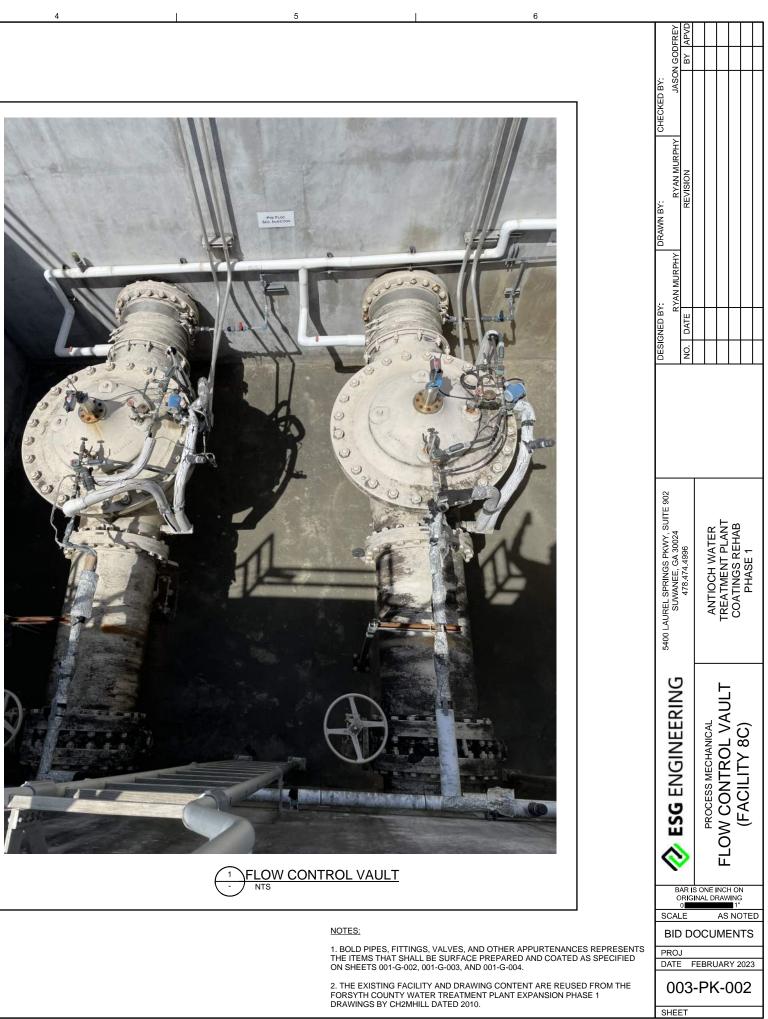
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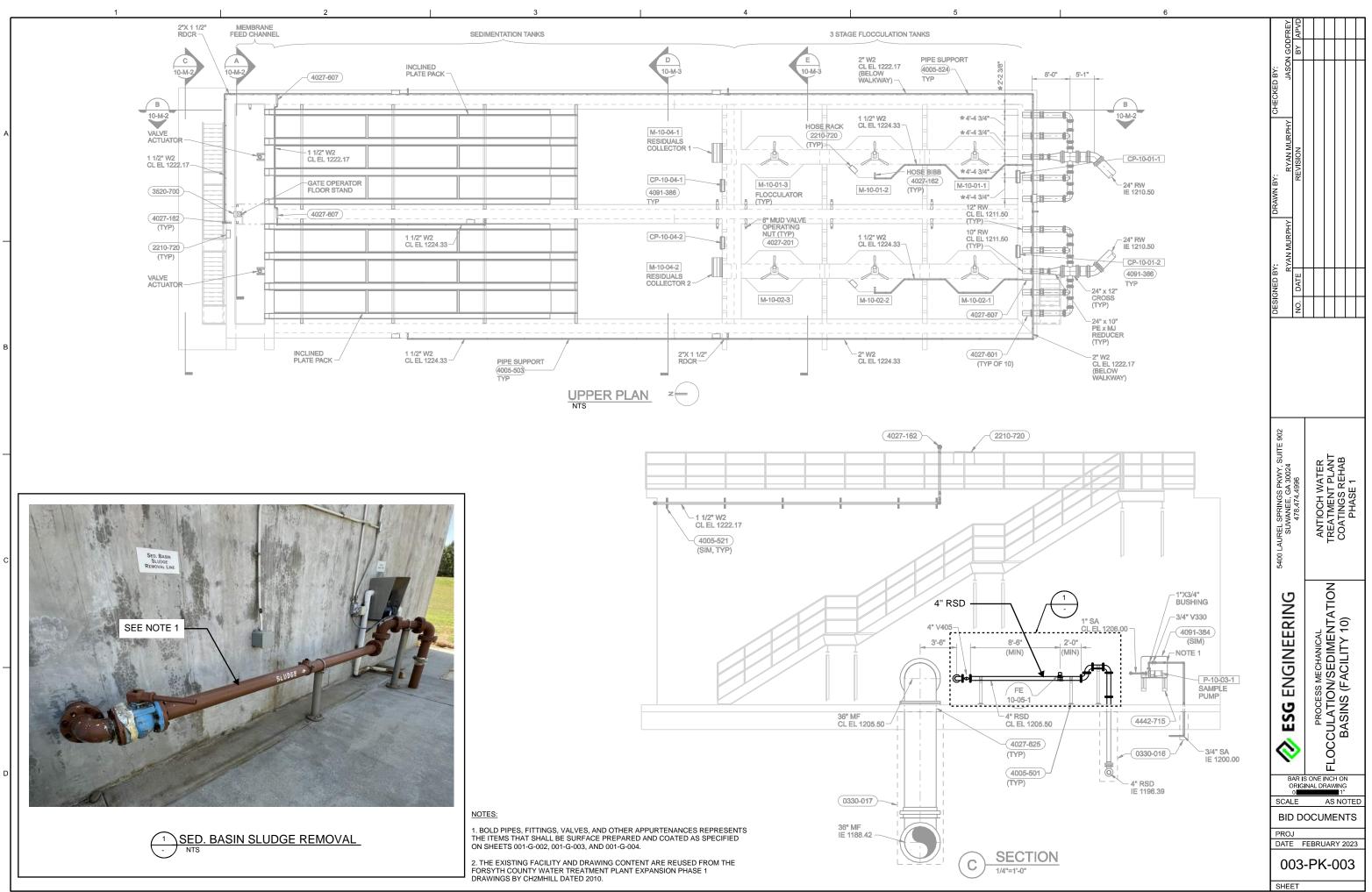
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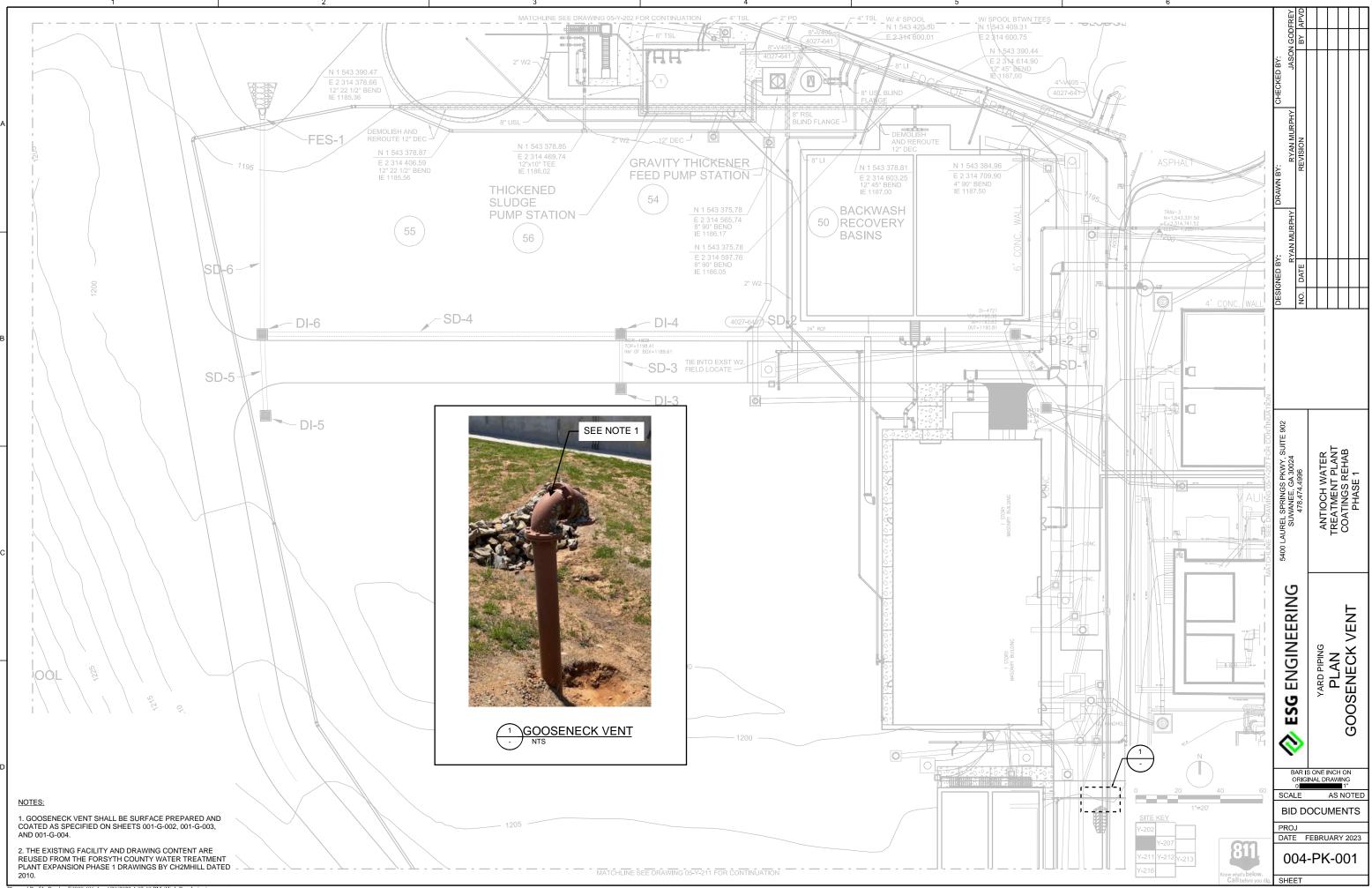
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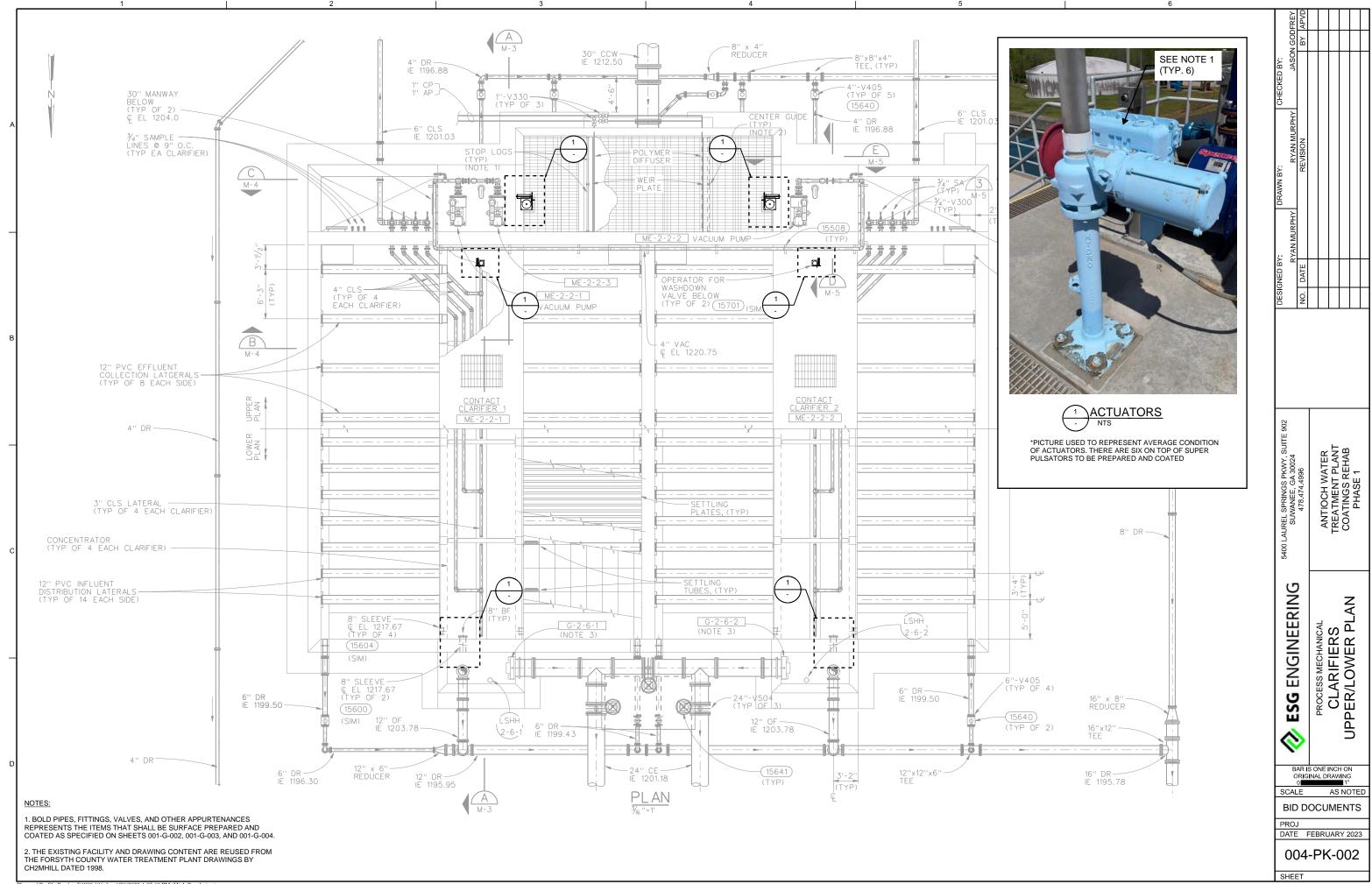


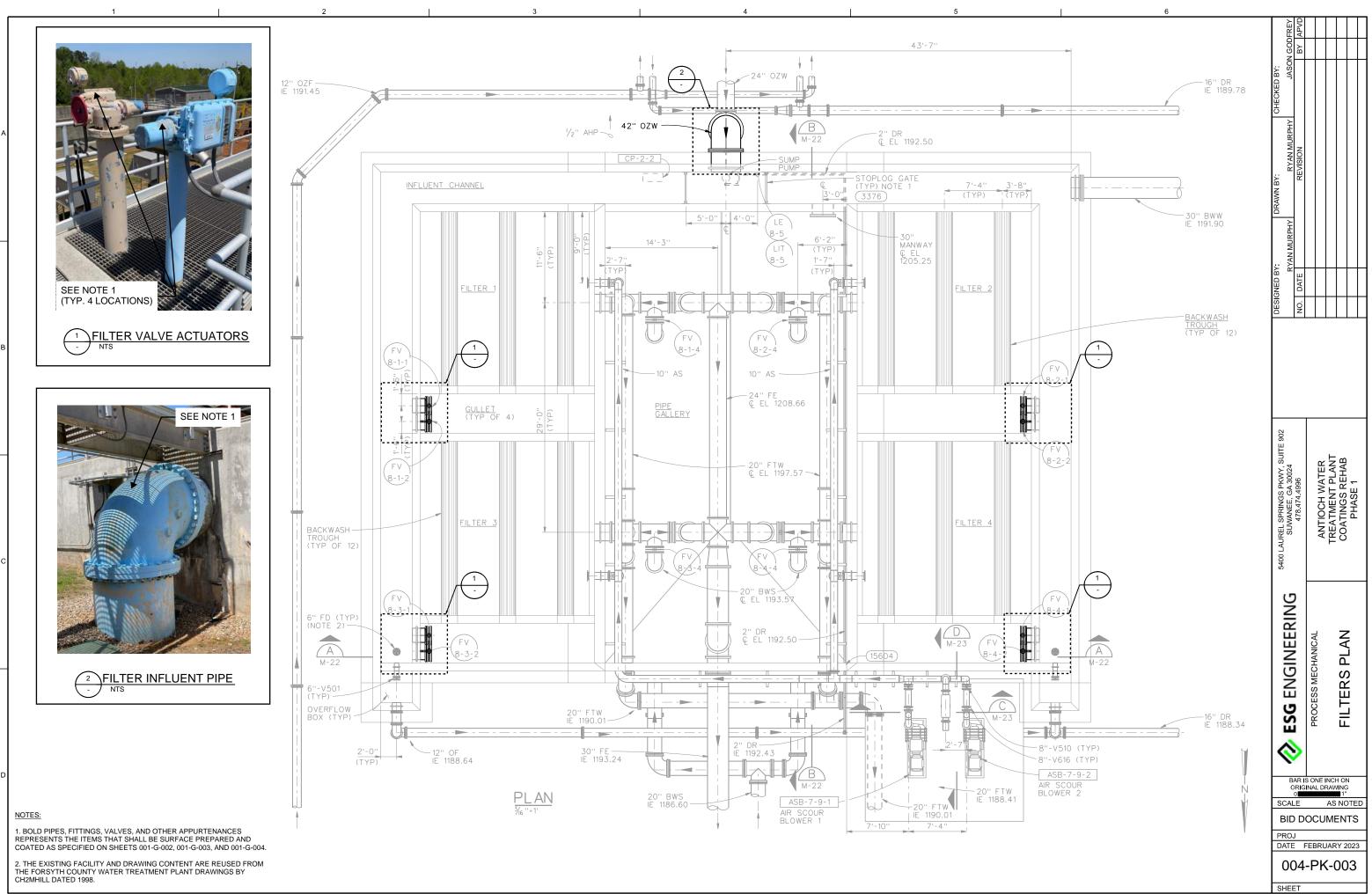




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