

GROVE CREEK WPCP

CITY OF COMMERCE, GA
GMC PROJECT # CATL230033



CITY OF COMMERCE, GA



LOCATION MAP



MARCH 2025

BID SET



Georgia One-Call Center
1-800-282-7411
Call at Least Two Working Days
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CLIENT PROJECT TEAM

DR. J. CLARK HILL, III	MAYOR
KEITH BURCHETT	MAYOR PRO-TEM
MATTHEW HAILEY	CITY MANAGER
JOSH ALLISON	WATER & SEWER SUPERINTENDENT
TADD EDMONDSON	WASTEWATER SUPERINTENDENT

DESIGN PROJECT TEAM

GOODWYN MILLS CAWOOD, LLC	CIVIL, PROCESS, ARCHITECTURAL
BFIELD ENGINEERING	ELECTRICAL, MECHANICAL, PLUMBING
DAY STRUCTURES	STRUCTURAL

I CERTIFY THAT I HAVE BEEN IN RESPONSIBLE CHARGE OF THE DESIGN OF THIS PROJECT IN ACCORDANCE WITH THE RULES OF THE GEORGIA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS. I FURTHER CERTIFY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THESE PLANS AND SPECIFICATION WERE PREPARED IN ACCORDANCE WITH CURRENT STANDARD ENGINEERING PRACTICES AND ACCURATELY REFLECT THE DESIGN DEVELOPMENT REPORT (DDR) PREVIOUSLY REVIEWED AND CONCURRED IN BY EPD. I FURTHER CERTIFY THAT THE SYSTEM AS DESIGNED CAN REASONABLY BE EXPECTED TO CONSISTENTLY MEET ALL CURRENTLY APPLICABLE PERMIT LIMITS, CONDITIONS, AND REGULATORY REQUIREMENTS, PROVIDED THE FACILITY IS CONSTRUCTED AS DESIGNED AND PROPERLY OPERATED AND MAINTAINED.

ENGINEER'S SIGNATURE *Graham S. Sizemore*

COMMERCE 2.0 MGD
GROVE CREEK WPCP
COMMERCE, GA

CATL230033

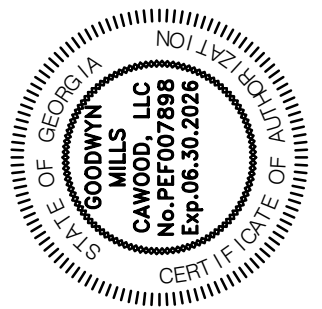


TITLE SHEET

G-001

ISSUE	DATE
30% Submittal	05.30.2024
60% Submittal	08.29.2024
90% Submittal	11.27.2024
Bid Set	03.19.2025

Project Manager:	CW
Engineer:	GS
Designer:	GS
Drawn By:	



6120 Powers Ferry Road NW, Suite 200
Atlanta, GA 30339
T 770.952.2481

GMC

GENERAL		C-104	CIVIL SITE PLAN - ENLARGED GEOMETRIC CONTROLS	CU-614	COMPREHENSIVE MONITORING PROGRAM GENERAL NOTES	A-106	ADMINISTRATION & LAB BUILDING - INTERIOR ELEVATIONS
SHT #	SHEET TITLE	C-201	CIVIL SITE PLAN - SITE LAYOUT	CU-615	WATERSHED MAP, DRAINAGE AREA & MONITORING LOCATIONS	A-107	ADMINISTRATION & LAB BUILDING - INTERIOR ELEVATIONS
G-001	TITLE SHEET	C-202	CIVIL SITE PLAN ALIGNMENT PLAN	CU-616	SOILS MAP	A-108	ADMINISTRATION & LAB BUILDING - WALL SECTIONS
G-002	DRAWING INDEX	C-203	CIVIL SITE PLAN - GRADING & DRAINAGE	CU-617	SOILS MAP	A-109	ADMINISTRATION & LAB BUILDING - WALL SECTIONS
G-003	DRAWING INDEX	C-204	PIPE AND STRUCTURE TABLE	CU-618	FEMA FLOODPLAIN MAP	A-110	ADMINISTRATION & LAB BUILDING - SCHEDULES
G-004	ABBREVIATIONS	C-301	CIVIL SITE PLAN - YARD PIPING	CU-619	FEMA FLOODPLAIN MAP	A-111	ADMINISTRATION & LAB BUILDING - DETAILS
G-005	GENERAL NOTES, LEGENDS, & SYMBOLS	C-302	CIVIL SITE PLAN - ENLARGED YARD PIPING	CU-901	STANDARD DETAILS	A-711	BLOWER BUILDING - FLOOR & ROOF PLAN
G-006	PROCESS FLOW DIAGRAM	C-303	CIVIL SITE PLAN - ENLARGED YARD PIPING	CU-902	STANDARD DETAILS	A-712	BLOWER BUILDING - ELEVATION
G-007	HYDRAULIC PROFILE (1 OF 2)	C-304	CIVIL SITE PLAN - ENLARGED YARD PIPING	CU-903	STANDARD DETAILS	A-713	BLOWER BUILDING - SECTIONS
G-008	HYDRAULIC PROFILE (2 OF 2)	C-601	CIVIL SITE PLAN - PHASE I - EROSION & SEDIMENT CONTROL PLAN	CU-904	STANDARD DETAILS	A-714	BLOWER BUILDING - SCHEDULES
G-009	PROCESS PIPING SCHEDULE	C-602	CIVIL SITE PLAN - PHASE II - EROSION & SEDIMENT CONTROL PLAN	STRUCTURAL		A-715	BLOWER BUILDING - DETAILS
G-011	PROCESS DESIGN CRITERIA	C-603	CIVIL SITE PLAN - PHASE III - EROSION & SEDIMENT CONTROL PLAN			SHT #	SHEET TITLE
INSTRUMENTATION		C-604	CIVIL SITE PLAN - PHASE IV - EROSION & SEDIMENT CONTROL PLAN	S-001	STRUCTURAL NOTES & TYPICAL DETAILS	A-722	DEWATERING BUILDING - ROOF PLAN
SHT #	SHEET TITLE	C-605	EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST	S-002	TYPICAL DETAILS	A-723	DEWATERING BUILDING - ELEVATION
I-001	P&ID ABBREVIATIONS & NOTES	C-606	ES & PC STANDARD DETAILS	S-003	TYPICAL DETAILS	A-724	DEWATERING BUILDING - WALL SECTIONS
I-002	P&ID LEGENDS	C-607	ES & PC STANDARD DETAILS	S-004	SCHEDULE OF STRUCTURAL SPECIAL INSPECTIONS	A-725	DEWATERING BUILDING - WALL SECTIONS
I-101	P&ID - INFLUENT PUMP STATION	C-608	ES & PC STANDARD DETAILS	S-101	ADMINISTRATION & LAB BUILDING FOUNDATION PLAN	A-726	DEWATERING BUILDING - SECTIONS
I-102	P&ID - INFLUENT SCREENS	C-609	ES & PC STANDARD DETAILS	S-102	ADMINISTRATION & LAB BUILDING ROOF FRAMING PLAN	A-727	DEWATERING BUILDING - SCHEDULES
I-103	P&ID - GRIT REMOVAL	C-610	ES & PC STANDARD DETAILS	S-103	ADMINISTRATION & LAB BUILDING - SECTIONS	A-728	DEWATERING BUILDING - DETAILS
I-211	P&ID - EQUALIZATION BASIN	C-611	ES & PC STANDARD DETAILS	S-104	ADMINISTRATION & LAB BUILDING - SECTIONS	PLUMBING	
I-221	P&ID - FLOW CONTROL VALVE VAULT	C-612	ES & PC STANDARD DETAILS	S-105	GENERATOR & ELECTRICAL BUILDING FOUNDATION - PLANS & SECTION	SHT #	SHEET TITLE
I-301	P&ID - AERATION BASIN	C-613	ES & PC STANDARD DETAILS	S-111	HEADWORKS PLAN	P-001	GENERAL
I-401	P&ID - CLARIFIERS	C-614	ES & PC STANDARD DETAILS	S-112	HEADWORKS - SECTIONS	P-002	SCHEDULES
I-402	P&ID - RAS/WAS PUMP STATION	C-615	COMPREHENSIVE MONITORING PROGRAM GENERAL NOTES	S-113	HEADWORKS - SECTIONS	P-003	DETAILS
I-501	P&ID - FILTERS	C-616	WATERSHED MAP, DRAINAGE AREA & MONITORING LOCATIONS	S-301	ORBAL AERATION - LOWER PLAN	P-004	RISER DIAGRAMS
I-601	P&ID - UV DISINFECTION	C-617	SOILS MAP	S-302	ORBAL AERATION - UPPER PLAN	P-101	ADMIN BUILDING FLOOR PLAN - WASTE & VENT
I-602	P&ID - PLANT REUSE WATER PUMP STATION & POST AERATION	C-618	SOILS MAP	S-303	ORBAL AERATION - TROLLEY FRAME PLAN	P-102	ADMIN BUILDING FLOOR PLAN - WATER
I-701	P&ID - AEROBIC DIGESTER	C-619	FEMA FLOODPLAIN MAP	S-304	ORBAL AERATION - ENLARGED PLANS	P-103	DEWATERING BUILDING FLOOR PLAN - WASTE & VENT
I-702	P&ID - DIGESTER BLOWERS	C-620	FEMA FLOODPLAIN MAP	S-305	ORBAL AERATION - ENLARGED PLANS	P-104	DEWATERING BUILDING FLOOR PLAN - WATER
I-711	P&ID - BELT FILTER PRESS	C-904	CIVIL - CIVIL SITE DETAILS	S-306	ORBAL AERATION - SECTIONS	MECHANICAL	
I-801	P&ID - YARD DRAIN PUMP STATION	C-905	CIVIL - CIVIL SITE DETAILS	S-307	ORBAL AERATION - SECTIONS	SHT #	SHEET TITLE
I-802	P&ID - CHEMICAL FEED - CAUSTIC SODA	C-906	CIVIL - CIVIL SITE DETAILS	S-308	ORBAL AERATION - SECTIONS	M-001	GENERAL
I-803	P&ID - CHEMICAL FEED - POLYALUMINUM CHLORIDE	C-907	CIVIL - CIVIL SITE DETAILS	S-309	ORBAL AERATION - SECTIONS	M-002	DETAILS
I-804	P&ID - CHEMICAL FEED - POLYMER	C-908	CIVIL - CIVIL SITE DETAILS	S-310	ORBAL AERATION - SECTIONS	M-003	SCHEDULES
I-901	INSTRUMENTATION DETAILS	C-909	CIVIL - CIVIL SITE DETAILS	S-311	ORBAL AERATION - TROLLEY ELEVATIONS	M-004	SCHEDULES
I-902	INSTRUMENTATION DETAILS	C-910	CIVIL - CIVIL SITE DETAILS	S-401	CLARIFIERS & SPLITTER BOX - UPPER PLAN	M-101	ADMIN BUILDING FLOOR PLAN
I-911	INSTRUMENTATION SCHEDULE	C-911	CIVIL - CIVIL SITE DETAILS	S-402	CLARIFIERS - SECTIONS	M-102	DEWATERING BUILDING FLOOR PLAN
I-912	INSTRUMENTATION SCHEDULE	C-912	CIVIL - CIVIL SITE DETAILS	S-403	CLARIFIERS & SPLITTER BOX - SECTIONS	M-103	CHEMICAL FEED FLOOR PLAN
DEMOLITION		C-913	CIVIL - CIVIL SITE DETAILS	S-501	TERTIARY FILTERS - PLANS	M-104	BLOWER BUILDING FLOOR PLAN
SHT #	SHEET TITLE	C-914	CIVIL - CIVIL SITE DETAILS	S-502	TERTIARY FILTERS - SECTIONS	PROCESS	
X-101	CIVIL SITE PLAN - INFLUENT PUMP STATION DEMOLITION	CIVIL UTILITIES		S-503	TERTIARY FILTERS - SECTIONS	SHT #	SHEET TITLE
GEOTECHNICAL		SHT #	SHEET TITLE	S-601	ULTRAVIOLET DISINFECTION - PLAN & SECTION	D-001	PROCESS KEY SITE PLAN
SHT #	SHEET TITLE	CU-201	CIVIL SITE PLAN - INFLUENT PUMP STATION GRADING PLAN	S-611	PLANT REUSE WATER PUMP STATION & POST AERATION - LOWER PLAN	D-101	INFLUENT PUMP STATION - PLAN
B-000	BORING PLAN	CU-311	CIVIL SITE PLAN - INFLUENT & EFFLUENT FORCE MAIN KEY	S-612	PLANT REUSE WATER PUMP STATION & POST AERATION - UPPER PLAN	D-102	INFLUENT PUMP STATION - SECTION & DETAILS
B-001	CIVIL SITE PLAN GEOTECHNICAL EXPLORATION	CU-312	CIVIL SITE PLAN - INFLUENT FORCE MAIN STATION 0+00 TO 10+00	S-613	PLANT REUSE WATER PUMP STATION & POST AERATION - SECTIONS	D-111	INFLUENT FLOW METER VAULT - PLAN & SECTION
B-002	CIVIL SITE PLAN GEOTECHNICAL EXPLORATION	CU-313	CIVIL SITE PLAN - INFLUENT FORCE MAIN STATION 10+00 TO 19+00	S-614	PLANT REUSE WATER PUMP STATION & POST AERATION - SECTIONS	D-121	HEADWORKS - LOWER PLAN
B-003	CIVIL SITE PLAN GEOTECHNICAL EXPLORATION	CU-314	CIVIL SITE PLAN - INFFLUENT FORCE MAIN STATION 0+00 TO 11+00	S-701	AEROBIC DIGESTERS - PLAN	D-122	HEADWORKS - UPPER PLAN
B-004	CIVIL SITE PLAN GEOTECHNICAL EXPLORATION	CU-315	CIVIL SITE PLAN - EFFLUENT FORCE MAIN STATION 11+00 TO 22+00	S-702	AEROBIC DIGESTERS - SECTION	D-123	HEADWORKS - SECTIONS
B-005	CIVIL SITE PLAN GEOTECHNICAL EXPLORATION	CU-316	CIVIL SITE PLAN - EFFLUENT FORCE MAIN STATION 22+00 TO 33+00	S-711	BLOWERS BUILDING - PLANS	D-124	HEADWORKS - SECTIONS
B-006	CIVIL SITE PLAN GEOTECHNICAL EXPLORATION	CU-317	CIVIL SITE PLAN - EFFLUENT FORCE MAIN STATION 33+00 TO 44+00	S-712	BLOWERS BUILDING - SECTIONS	D-125	HEADWORKS - SECTIONS
B-007	CIVIL SITE PLAN GEOTECHNICAL EXPLORATION	CU-318	CIVIL SITE PLAN - EFFLUENT FORCE MAIN STATION 44+00 TO 53+00	S-721	DEWATERIING BUILDING - FOUNDATION PLAN	D-201	EQUALIZATION BASIN - PLAN, SECTION, & DETAILS
B-008	CIVIL SITE PLAN GEOTECHNICAL EXPLORATION	CU-319	CIVIL SITE PLAN - EFFLUENT FORCE MAIN STATION 53+00 TO 63+50	S-722	DEWATERIING BUILDING - ROOF FRAMING PLAN	D-211	FLOW CONTROL VAULT - PLAN & SECTION
B-009	CIVIL SITE PLAN GEOTECHNICAL EXPLORATION	CU-320	CIVIL SITE PLAN - EFFLUENT FORCE MAIN STATION 63+50 TO 74+50	S-723	DEWATERING BUILDING - SECTIONS	D-301	ORBAL AERATION - LOWER PLAN
B-010	CIVIL SITE PLAN GEOTECHNICAL EXPLORATION	CU-321	CIVIL SITE PLAN - EFFLUENT FORCE MAIN STATION 74+50 TO 85+50	S-724	DEWATERIING BUILDING - SECTIONS	D-302	ORBAL AERATION - UPPER PLAN
B-011	CIVIL SITE PLAN GEOTECHNICAL EXPLORATION	CU-322	CIVIL SITE PLAN - EFFLUENT FORCE MAIN STATION 85+50 TO 96+50	S-801	CHEMICAL TANK FARM - PLAN & SECTION	D-303	ORBAL AERATION - CENTER ISLAND PLAN & SECTIONS
B-012	CIVIL SITE PLAN GEOTECHNICAL EXPLORATION	CU-323	CIVIL SITE PLAN - EFFLUENT FORCE MAIN STATION 96+50 TO 107+00	S-802	CHEMICAL TANK FARM - SECTIONS	D-304	ORBAL AERATION - INFLUENT PIPING PLAN & SECTIONS
B-013	CIVIL SITE PLAN GEOTECHNICAL EXPLORATION	CU-324	CIVIL SITE PLAN - EFFLUENT FORCE MAIN STATION 95+50 TO 110+00	ARCHITECTURAL		D-305	ORBAL AERATION - EFFLUENT PIPING PLAN & SECTIONS
B-014	CIVIL SITE PLAN GEOTECHNICAL EXPLORATION	CU-325	CIVIL SITE PLAN - EFFLUENT FORCE MAIN STATION 114+21 TO HARDEN BRIDGE RD.	SHT #	SHEET TITLE	D-306	ORBAL AERATION - RETURN SLUDGE PLAN & SECTIONS
B-015	CIVIL SITE PLAN GEOTECHNICAL EXPLORATION	CU-401	WATER MAIN LAYOUT (HAGGARD RD.) STA. 0+00 TO 27+10	A-001	ARCHITECTURAL KEY PLAN	D-307	AERATION BASIN - DRIVE PLAN & SECTIONS
B-016	CIVIL SITE PLAN GEOTECHNICAL EXPLORATION	CU-605	EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST	A-002	DEWATERING LIFE SAFETY PLAN	D-308	ORBAL AERATION SECTIONS
B-017	CIVIL SITE PLAN GEOTECHNICAL EXPLORATION	CU-606	ES & PC GENERAL NOTES, LEGENDS & SCHEDULE	A-003	ADMINISTRATION & LAB BUILDING LIFE SAFETY PLAN	D-401	CLARIFIERS - PLAN
CIVIL		CU-607	ES & PC STANDARD DETAILS	A-004	BLOWER BUILDING - LIFE SAFETY PLAN	D-402	CLARIFIERS - SPLITTER BOX DETAIL
SHT #	SHEET TITLE	CU-608	ES & PC STANDARD DETAILS	A-101	ADMINISTRATION & LAB BUILDING - FLOOR PLAN		
C-001	CIVIL SITE PLAN - EXISTING CONDITIONS	CU-609	ES & PC STANDARD DETAILS	A-102	ADMINISTRATION & LAB BUILDING - DETAILED PLAN & REFLECTED CEILING PLAN		
C-101	CIVIL SITE PLAN - EXISTING CONDITIONS	CU-610	ES & PC STANDARD DETAILS	A-103	ADMINISTRATION & LAB BUILDING - ENLARGED FLOOR PLAN		
C-102	CIVIL SITE PLAN - GEOMETRIC CONTROLS	CU-611	ES & PC STANDARD DETAILS	A-104	ADMINISTRATION & LAB BUILDING - ENLARGED FLOOR PLAN		
C-103	CIVIL SITE PLAN - ENLARGED GEOMETRIC CONTROLS	CU-612	ES & PC STANDARD DETAILS	A-105	ADMINISTRATION & LAB BUILDING - EXTERIOR ELEVATIONS		

DATE

30% Submittal

05.30.2024

60% Submittal

08.29.2024

90% Submittal

11.27.2024

Bid Set

03.19.2025

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Project Manager:

Engineer:

Designer:

Drawn By:

CW

GS

GS

GS

COMMERCE 2.0 MGD

3 GROVE CREEK WPCP

COMMERCE, GA

GEORGIA

REGISTERED

No. PE051452

PROFESSIONAL

Engineer - Mechanical

03.19.2025

ENGINEER

ORHAM S. SIZEMORE

DRAWING INDEX

G-002

6120 Powers Ferry Road NW, Suite 200

Atlanta, GA 30339

T 770.952.2481

1"

0"

5"

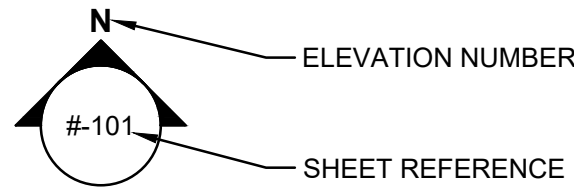
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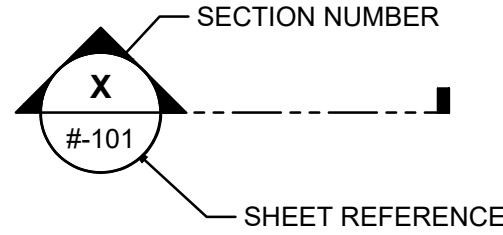
Project Manager:	CW
Engineer:	GS
Designer:	GS
Drawn By:	

GRAPHICS LEGEND

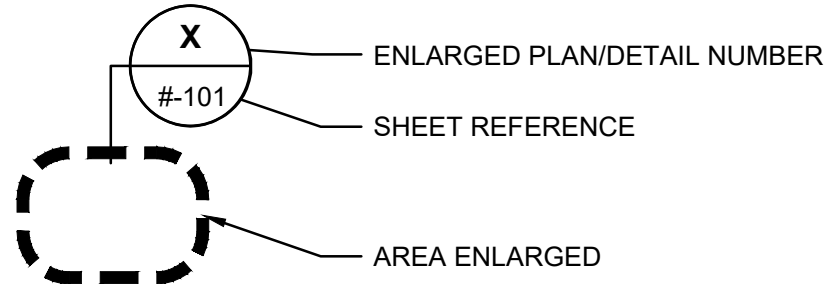
ELEVATION INDICATOR



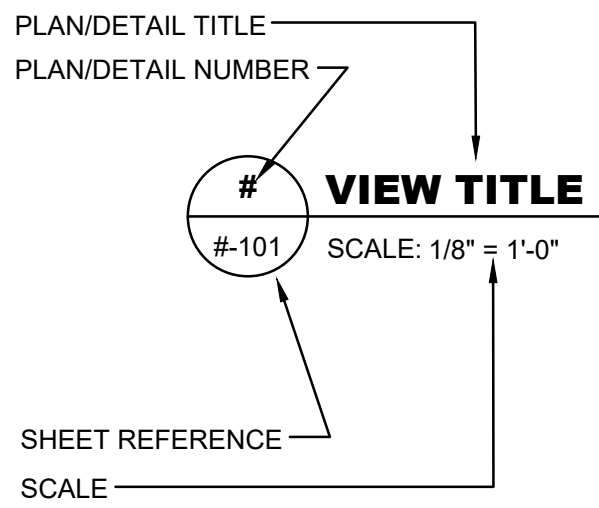
SECTION INDICATOR



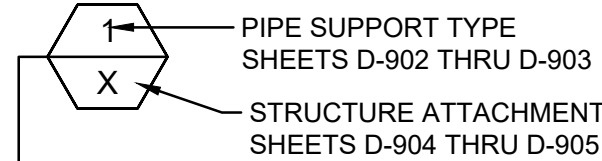
ENLARGED PLAN/DETAIL INDICATOR



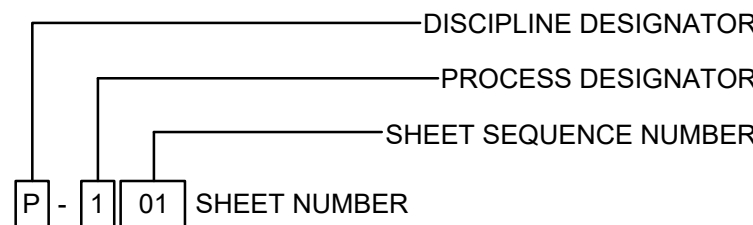
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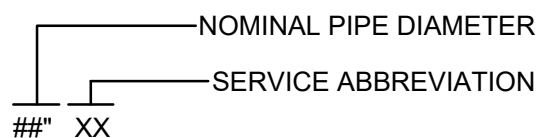
PIPE SUPPORT INDICATOR



SHEET NUMBERING



PIPE LINE IDENTIFICATION



PROCESS DESIGNATORS

PROCESS SHEETS (WASTEWATER)	DESIGNATOR
NOTES, LEGEND, ABBREVIATIONS, DEMOLITION, EXISTING CONDITIONS, ETC.	0
PRELIMINARY TREATMENT	1
PRIMARY TREATMENT	2
BIOLOGICAL TREATMENT	3
SECONDARY TREATMENT	4
TERTIARY TREATMENT	5
DISINFECTION AND EFFLUENT PUMPING	6
SLUDGE STORAGE AND PROCESSING	7
MISCELLANEOUS SYSTEMS	8
DETAILS / SCHEDULES	9

CIVIL DESIGNATORS

CIVIL	DESIGNATOR
NOTES, LEGEND, ABBREVIATIONS, DEMOLITION, EXISTING CONDITIONS, ETC.	0
SITE PLAN AND GEOMETRIC CONTROLS	1
GRADING AND DRAINAGE	2
UTILITIES/YARD PIPING	3
ROAD PLAN AND PROFILES (IF REQUIRED)	4
ROAD CROSS SECTIONS (IF REQUIRED)	5
SEDIMENT AND EROSION CONTROL	6
RESERVED	7
RESERVED	8
DETAILS / SCHEDULES	9

OWNER

DESCRIPTION	NAME	PHONE NUMBER	EMAIL ADDRESS
CITY MANAGER	MATTHEW HAILEY	706.423.5125	MHAILEY@COMMERCEGA.GOV
WWTP SUPERINTENDENT	TAD EDMONSON	770.374.3288	TEDMONSON@COMMERCEGA.GOV

CONTRACTOR

DESCRIPTION	NAME	PHONE NUMBER	EMAIL ADDRESS
PROJECT MANAGER	TBD		
SUPERINTENDENT	TBD		

ENGINEER

DESCRIPTION	NAME	PHONE NUMBER	EMAIL ADDRESS
PROJECT MANAGER	CHARLES WELCH	770.952.2481 EXT. 103	CHARLES.WELCH@GMCNETWORK.COM
ENGINEER	GRAHAM SIZEMORE, PE	770.952.2481 EXT. 143	GRAHAM.SIZEMORE@GMCNETWORK.COM
INSPECTOR	TONY VAN DE RYT	770.952.2481 EXT. 110	TONY.VANDERYT@GMCNETWORK.COM

PIPE SYMBOLS

DESCRIPTION	SINGLE LINE	DOUBLE LINE
EXISTING BURIED PIPE		
EXISTING ABOVE GRADE PIPE		
NEW BURIED PIPE		
NEW ABOVE GRADE PIPE		
WELDED JOINT		
FLANGED JOINT		
FLANGED ADAPTOR		
FLANGED COUPLING		
MECHANICAL JOINT		
JOINT		
EXPANSION JOINT		

HATCHING LEGEND

DESCRIPTION	EXISTING	PROPOSED
ASPHALT PAVING (PLAN)		
ALUMINUM GRATING		
CONCRETE (ELEVATION)		
CONCRETE (PLAN)		
CONCRETE (SECTION)		
CRUSHED STONE (SECTION)		
EARTH OR BACKFILL (SECTION)		
GRAVEL DRIVE (PLAN)		
GROUT FILL (PLAN & SECTION)		
LAKE, RIVER OR POND (PLAN)		
REMOVAL OR DEMOLITION (PLAN & SECTION)		
UNPAVED DRIVE (PLAN)		

DISCIPLINE DESIGNATORS

DISCIPLINE	DESIGNATOR
GENERAL	G
HAZARDOUS MATERIALS	H
INSTRUMENTATION	I
DEMOLITION	X
SURVEY/MAPPING	V
GEOTECHNICAL	B
CIVIL	C
LANDSCAPE	L
STRUCTURAL	S
ARCHITECTURAL	A
FIRE PROTECTION	F
MECHANICAL	M
PLUMBING	P
PROCESS	D
ELECTRICAL	E

GENERAL NOTES

1. THE CONTRACTOR IS EXPECTED TO CAREFULLY EXAMINE THE PLAN, PROPOSAL AND SITE OF THE WORK, THEREFORE, IT WILL BE ASSUMED THAT THE BIDDER HAS SATISFIED HIMSELF AS TO THE CONDITIONS TO BE ENCOUNTERED IN REGARDS TO THE CHARACTER, QUALITY, AND QUANTITIES OF WORK TO BE PERFORMED AND MATERIALS TO BE FURNISHED, AND AS TO THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS, SPECIAL PROVISIONS AND CONTRACT. THE SUBMISSION OF A PROPOSAL BY A BIDDER WILL BE CONSIDERED PRIMA FACIE EVIDENCE THAT THE BIDDER HAS MADE SUCH AN EXAMINATION.
2. THE CONTRACTOR IS REQUIRED TO MAINTAIN AN AS-BUILT SET OF DRAWINGS THROUGHOUT PROJECT CONSTRUCTION. THE COMPLETE AS-BUILT MAP WILL CONTAIN ALL INSTALLED ELECTRICAL, STRUCTURAL ENTITIES, LINES, VALVES, METERS, AND CONNECTIONS WITH REFERENCE DISTANCES TO PERMANENT ABOVE GROUND STRUCTURES.
3. ALL EXISTING UTILITIES SHOWN ABOVE AND BELOW GROUND ARE APPROXIMATE AND ARE NOT NECESSARILY ALL THAT EXIST. THE DETERMINATION OF THE EXISTENCE, LOCATION, AND DEPTH OF ALL UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED BY CONTRACTOR FOR ONE YEAR AFTER ACCEPTANCE BY THE OWNER PER SPECIFICATION 1030.
5. IN THE EVENT THAT THERE IS A DISCREPANCY BETWEEN THE CIVIL DRAWINGS AND THE ARCHITECTURAL/STRUCTURAL DRAWINGS, THE ARCHITECTURAL/STRUCTURAL DRAWINGS SHALL HAVE PRECEDENCE. THE CONTRACTOR SHALL ADVISE THE ENGINEER OF ANY CONFLICT IN THE PLANS/SPECS FOR CLARIFICATION PRIOR TO BID. SHOULD CONFLICTING DOCUMENTS NOT BE CLARIFIED AT THE REQUEST OF THE BIDDING CONTRACTOR, THE MORE COSTLY ALTERNATIVE AS IDENTIFIED IN THE PLAN & SPECS SHALL BE INCLUDED IN THE PRICE BID.
6. ALL HAZARDOUS SUBSTANCES USED FOR THIS PROJECT, INCLUDING, BUT NOT LIMITED TO, PAINT, OIL, GREASE, AND OTHER PETROLEUM PRODUCTS SHALL BE STORED IN ACCORDANCE WITH "SPILL PREVENTION, CONTROL & COUNTERMEASURE" REGULATIONS. THESE SUBSTANCES SHALL BE STORED AWAY FROM STORM DRAINS, DITCHES, AND GUTTERS IN WATERTIGHT CONTAINERS. DISPOSAL OF THESE SUBSTANCES SHALL BE IN ACCORDANCE WITH STATE & FEDERAL AGENCY REGULATIONS. CONTRACTOR SHALL PROVIDE ADEQUATE TRASH CONTAINERS ON SITE FOR THE DISPOSAL OF CONSTRUCTION MATERIALS WASTE. CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING ANY TRASH OR OTHER POLLUTANTS FROM ENTERING STORM DRAINS & WATERS OF THE STATE.

GENERAL NOTES, LEGENDS, & SYMBOLS

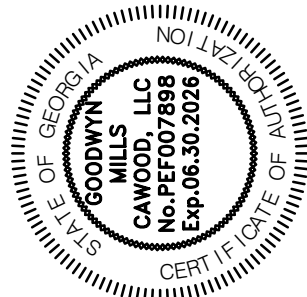
COMMERCE 2.0 MGD
BROVE CREEK WPCP
COMMERCE, GA

G-005

CATL230033

The ONG logo is positioned in the bottom right corner of the page. It consists of the letters 'ONG' in a bold, black, sans-serif font. The 'O' and 'G' are stylized with a slight gap at the top and bottom, respectively.

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ISSUE	DATE
30% Submittal	05.30.2024
60% Submittal	08.29.2024
90% Submittal	11.27.2024
Bid Set	03.19.2025
Project Manager:	CW
Engineer:	GS
Designer:	GS
Drawn By:	



DRAWING FILE: T:\Projects\GA\Commerce\CATL230033 - Commerce 2.0 MGD Grove Creek WPCP\0 DWG\PLANS\02 SHEETS\02 INSTRUMENTATION\I-001 CATL230033-PID Notes.dwg
PLOTTED: Mar 19, 2025 - 11:37am

A

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16

INSTRUMENT IDENTIFICATION LETTERS				
FIRST LETTER		SUCCEEDING LETTER		
MEASURED OR INITIATED VARIABLE		READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A ANALYSIS		ALARM		
B BURNER FLAME				
C CONDUCTIVITY (ELECTRICAL)			CONTROL	CLOSE
D DENSITY (MASS) OR SPECIFIC GRAVITY	DIFFERENTIAL	DELAY		
E VOLTAGE (EMF)		PRIMARY ELEMENT		
F FLOW RATE	RATIO (FRACTION)			
G GAUGING		GLASS		
H HAND (MANUALLY INITIATED)				HIGH
I CURRENT (ELECTRICAL)		INDICATE		
J POWER	SCAN			
K TIME OR SCHEDULE			CONTROL STATION	
L LEVEL		LIGHT (PILOT)		LOW
M MOISTURE OR HUMIDITY	MOMENTARY			MIDDLE OR INTERMEDIATE
N UNCLASSIFIED				
O UNCLASSIFIED		ORIFICE (RESTRICTION)		OPEN
P PRESSURE OR VACCUM		POINT (TEST CONNECTION)		
Q QUANTITY	INTEGRATE OR TOTALIZE			
R RADIOACTIVITY		RECORD OR PRINT		
S SPEED OR FREQUENCY	SAFETY		SWITCH	
T TEMPERATURE			TRANSMIT OR TRANSMITTER	
U MULTIVARIABLE		MULTI FUNCTION	MULTIFUNCTION	MULTIFUNCTION
V VIBRATION MECHANICAL ANALYSIS			VALVE, DAMPER OR LOUVER	
W WEIGHT OR FORCE		WELL		
X EVENT			UNCLASSIFIED	
Y UNCLASSIFIED			RELAY, COMPUTE, OR CONVERT	
Z POSITION			DRIVE, ARTICULATE OR UNCLASSIFIED FINAL CONTROL ELEMENT	

P&ID ABBREVIATIONS	
CONC	CONCENTRIC
CP	CONTROL PANEL
DO	DISSOLVED OXYGEN
ECC	ECCENTRIC
EL	ELEVATION
ES	EMERGENCY STOP
FC	FAIL CLOSE
FCP	FACTORY CONTROL PANEL (FURNISHED BY EQUIPMENT MANUFACTURER)
FI	FAIL INTERMEDIATE
FL	FAIL LOCKED
FLG	FLANGE
FO	FAIL OPEN
FOR	FORWARD/OFF/REVERSE (MAINTAINED)
FSR	FORWARD/STOP/REVERSE (MAINTAINED)
FWE	FURNISHED WITH EQUIPMENT
GPM	GALLONS PER MINUTE
HMI	HUMAN MACHINE INTERFACE
HOA	HAND/OFF/AUTO
HP	HIGH PRESSURE
LC	LOCKED CLOSE
LCP	LOCAL CONTROL PANEL (FURNISHED BY SYSTEMS INTEGRATOR)
LO	LOCKED OPEN
LOR	LOCAL/OFF/REMOTE
LP	LOW PRESSURE
LR	LOCAL/REMOTE
LT	LOW TEMPERATURE
MA	MANUAL/AUTO
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MCP	MAIN CONTROL PANEL
MIN	MINIMUM
MW	MANWAY
NC	NORMALLY CLOSED
NLL	NORMALLY LIQUID LEVEL
NO	NORMALLY OPEN
OC	OPEN/CLOSE
OCA	OPEN/CLOSE/AUTO
OCR	OPEN/CLOSE/REMOTE
OO	ON/OFF
ORIF	ORIFICE
ORP	OXIDATION REDUCTION POTENTIAL
OS	OPERATION SWITCH
PC	PARTICLE COUNT
pH	HYDROGEN ION CONCENTRATION
R	RESET
RED	REDUCER
RS	RUN/STOP (AUTO RESET/RUN @ POWER INTERRUPTION)
RSJ	RUN/STOP/JOG
S	SILENCE
SCN	SAMPLE CONNECTION
SC	STREAMING CURRENT
SCH	SCHEDULE
SD	SHUTDOWN
SLBL	SLUDGE BLANKET LEVEL
SP	SAMPLE POINT
SR	SAFE/RUN
SST	STAINLESS STEEL
SSR	START/STOP (MANUAL RESET @ POWER INTERRUPTION)
STD	STANDARD
T	TEST
TOR	TORQUE
TURB	TURBIDITY
TYP	TYPICAL
UD	UP/DOWN

INSTRUMENT IDENTIFICATION			
LAH XXX WZZO MULTIPLE UNITS (A, B, C, ETC) SEQUENCE NUMBER PROCESS ID NUMBER LOOP NUMBER	FIELD MOUNTED XXX 1000	PANEL MOUNTED XXX 1000	AUX LOCATION / MAIN CONTROL ROOM XXX 1000
DISCRETE INSTRUMENT	XXX 1000	XXX 1000	XXX 1000
SHARED DISPLAY / CONTROL	XXX 1000	XXX 1000	XXX 1000
UNDEFINED INTERLOCK LOGIC		X	

EXAMPLE ALARMS OR ACTIONS	
HA	HIGH ALARM
LAH	LEVEL ALARM HIGH
LAHH	LEVEL ALARM HIGH HIGH
HOA	HAND/OFF/AUTO
LAL	LOW
LAU	LOW LOW
OO	ON / OFF

NOTES	
1	THE PROCESS AND INSTRUMENTATION DIAGRAMS (P&ID) ARE BASED ON PROCESS EQUIPMENT SELECTED BY THE ENGINEER, AS SHOWN ON THE DRAWINGS.
2	THE ARRANGEMENT OF PROCESS AND INSTRUMENTATION DIAGRAMS REPRESENTS THE BASIS OF DESIGN FOR EACH TYPE OF EQUIPMENT, AS DESCRIBED IN THE SPECIFICATIONS. CHANGES TO THE LISTED BASIS OF DESIGN THAT DIFFER FROM THE SHOWN ARRANGEMENT SHALL BE THE CONTRACTOR'S RESPONSIBILITY. HOWEVER, NO ADDITIONAL PAYMENT WILL BE MADE TO THE CONTRACTOR FOR SUCH MODIFICATIONS.
3	IF APPROVED BY THE ENGINEER, THE MANUFACTURER MAY ELECT TO MODIFY PROCESS AND INSTRUMENTATION DIAGRAM TO IMPROVE SYSTEM FUNCTION.
4	THE CONFIGURATION SHOWN ON THE PROCESS AND INSTRUMENTATION DIAGRAM SHALL NOT BE USED FOR CONSTRUCTION AS THE LAYOUT OF THE PROCESS FLOW DIAGRAM IS NOT TO SCALE AND IS NOT REPRESENTATIVE OF THE ACTUAL FIELD LAYOUT.
5	FOR PIPE SERVICE ABBREVIATIONS, SEE GENERAL SHEETS.

SHEET CONTINUATION	
PROCESS INTERFACE LETTER A I-101 SOURCE OR DESTINATION DRAWING NUMBER	
PROCESS INTERFACE LETTER XX CONTINUATION ELSEWHERE SAME SHEET	

SHEET CONTINUATION	
EXAMPLE:	RW - 8
LINE SERVICE (SEE LEGEND)	
NOMINAL SIZE	

P & ID
ABBREVIATIONS
& NOTES

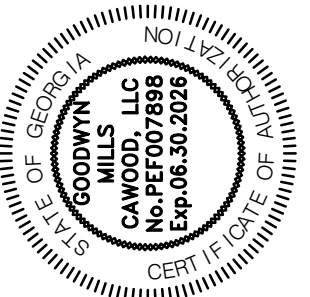
I-001

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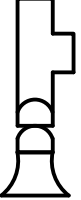
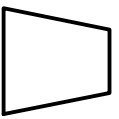
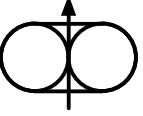
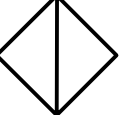
ISSUE		DATE
30% Submittal		05.30.2024
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Drawn By:		



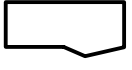
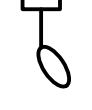
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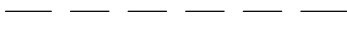
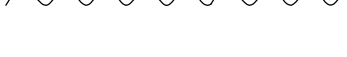
GENERAL EQUIPMENT			
	CENTRIFUGAL PUMP		HEAT EXCHANGER
	POSITIVE DISPLACEMENT PUMP		PERISTALTIC PUMP
	VERTICAL TURBINE PUMP		STATIC MIXER
	HORIZONTAL SPLIT-CASE PUMP		MIXER
	ROTARY SCREW COMPRESSOR		SILENCER
	PROGRESSIVE CAVITY PUMP		DRAIN
	GRINDER		VENT
	DIAPHRAGM PUMP		FLEXIBLE HOSE OR JOINT
	EDUCTOR		DIAPHRAGM OR LOAD CELL
	CENTRIFUGAL FAN / BLOWER		UNION
	BLOWER (POSITIVE DISPLACEMENT)		ANNULAR SEAL RING
	SPRAY NOZZLE		SINGLE ARCH EXPANSION JOINT
	FILTER/STRAINER		SLIDE GATE
	HEATER		HIGH-SPEED TURBO BLOWER

VALVES	
	GATE
	GLOBE
	CHECK
	DIAPHRAGM
	BALL
	FLOAT
	DUCKBILL CHECK
	NEEDLE
	BUTTERFLY
	SAFETY RELIEF
	PRESSURE REGULATING
	PLUG
	3-WAY
	AIR RELEASE
	MUD OR FOOT
	PINCH
	KNIFE GATE

INSTRUMENTS	
	FLOWMETER - MAG
	FLOWMETER - PROPELLER
	FLOWMETER - VENTURI
	FLOWMETER - THERMAL MASS
	ROTAMETER
	PARSHALL FLUME
	LEVEL ELEMENT (ULTRASONIC)
	FLOAT SWITCH
	VIBRATING FORK LEVEL SWITCH

GENERAL FITTINGS	
	REDUCER
	FLANGE/BOLTED
	END CAP
	RESTRICTING ORIFICE
	COUPLER CONNECTION

ACTUATORS	
	MOTOR OPERATOR
	SOLENOID
	PNEUMATIC ACTUATOR

LINE LEGEND	
	PRIMARY PROCESS LINE
	SECONDARY PROCESS LINE
	EXISTING
	ELECTRICAL SIGNAL
	ELECTRIC SUPPLY VOLTAGE/PHASE
	INSULATED
	HEAT TRACED
	ETHERNET
	PLANT AIR SUPPLY
	INSTRUMENT AIR SUPPLY
	NON-POTABLE WATER SUPPLY
	REUSE WATER SUPPLY
	BY VENDOR

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COMMERCE, GA

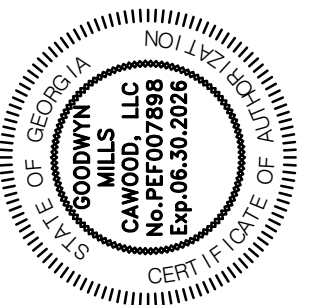


P & ID
LEGENDS

I-002

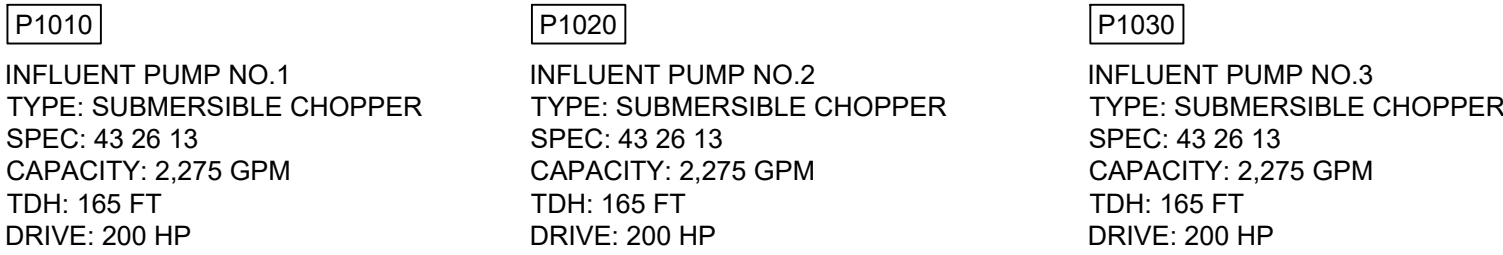
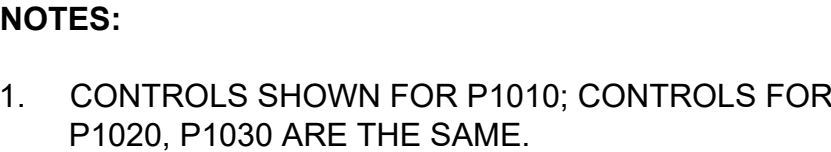
CATL230033

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ISSUE	DATE	
	05.30.2024	
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Bid Set		
Project Manager:		CW
Engineer:		GS
Designer:		GS
Drawn By:		





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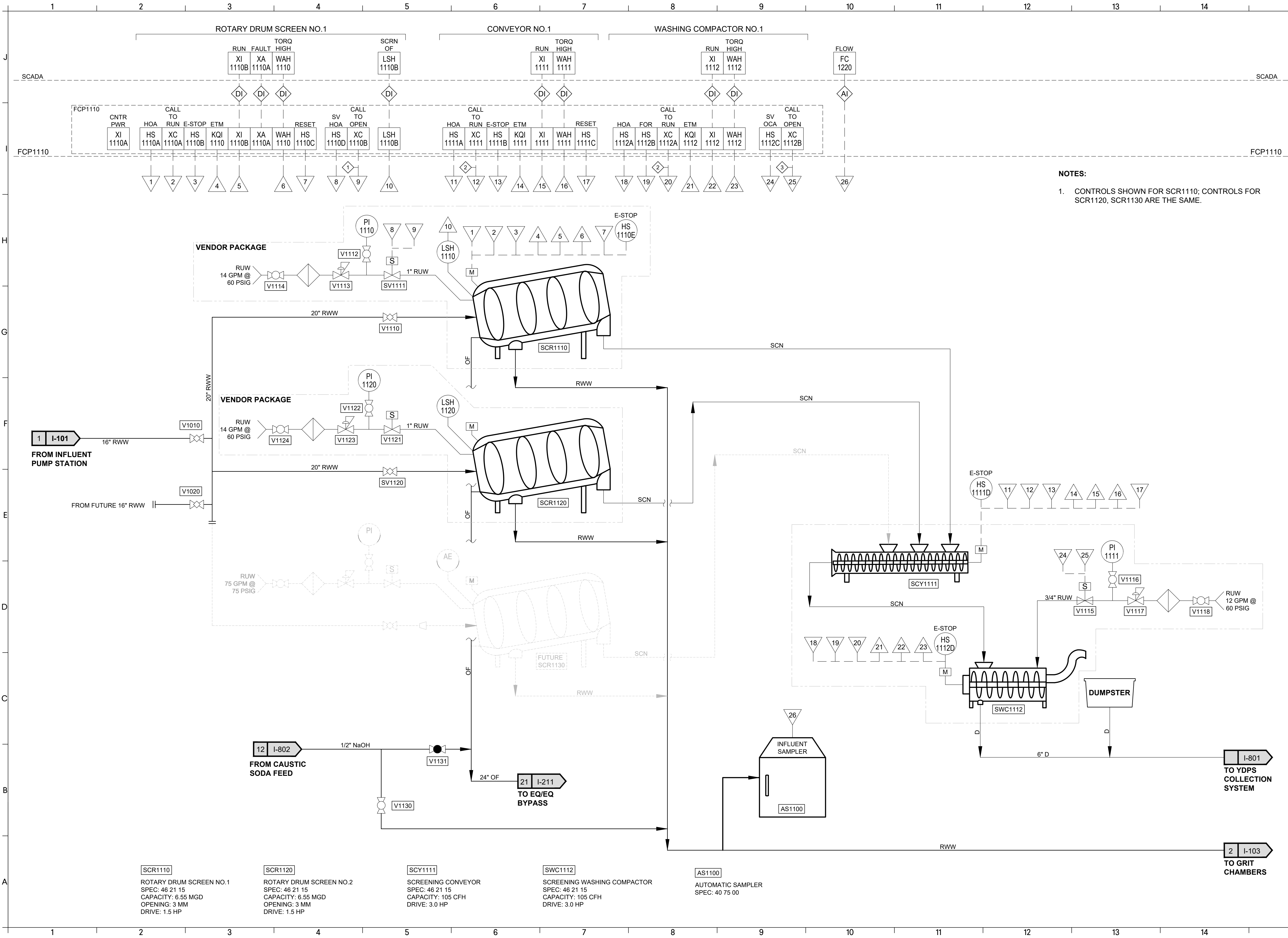
ISSUE	DATE
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CATL230033

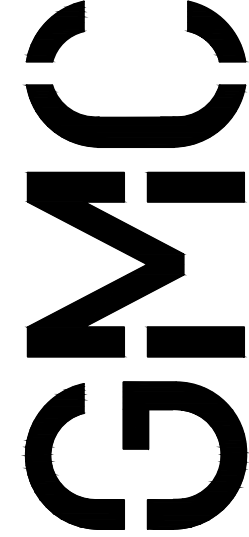


I-101

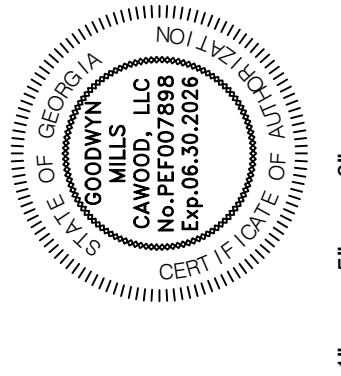
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NOTES:
1. CONTROLS SHOWN FOR SCR1110; CONTROLS FOR SCR1120, SCR1130 ARE THE SAME.



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COMMERCE, GA

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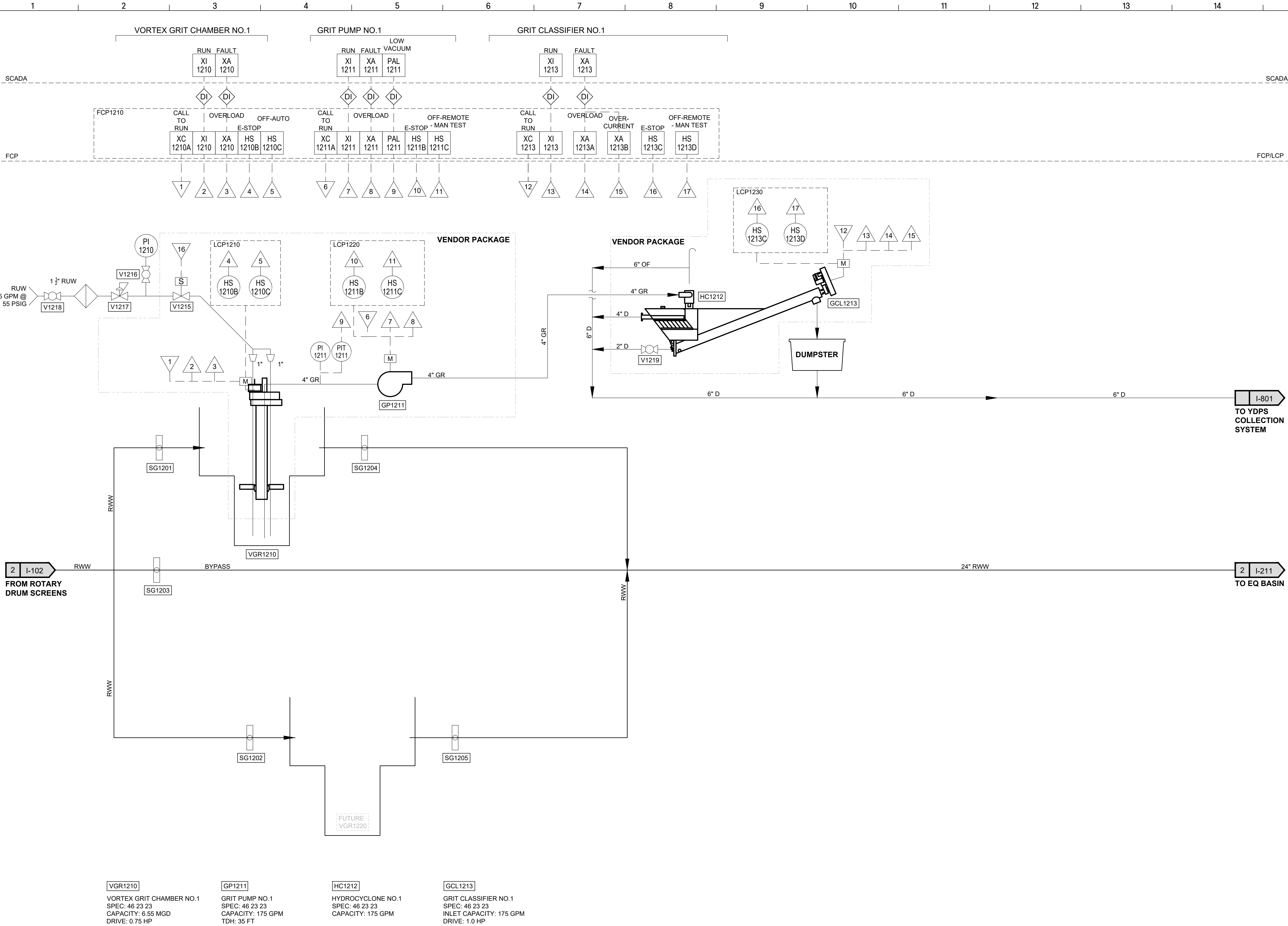


P & ID
INFLUENT
SCREENS

I-102

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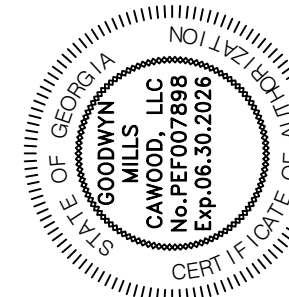
CATL230033

P & ID
GRIT REMOVAL

I-103

ISSUE	DATE
30% Submittal	05.30.2024
60% Submittal	08.29.2024
90% Submittal	11.27.2024
Bid Set	03.19.2025

Project Manager:	CW
Engineer:	GS
Designer:	GS
Drawn By:	

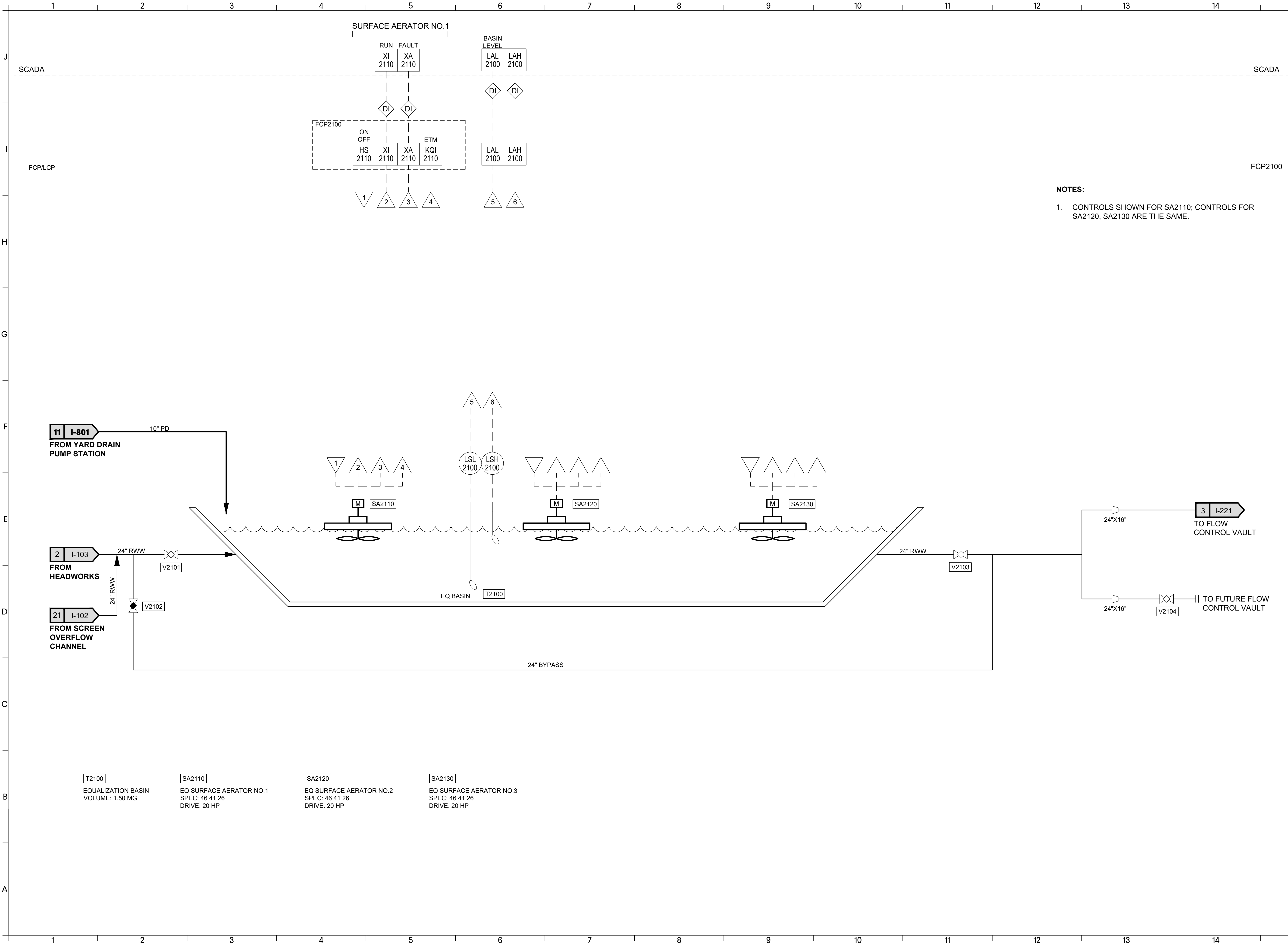


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NOTES:
1. CONTROLS SHOWN FOR SA2110; CONTROLS FOR SA2120, SA2130 ARE THE SAME.

T2100
EQUALIZATION BASIN
VOLUME: 1.50 MG

SA2110
EQ SURFACE AERATOR NO.1
SPEC: 46 41 26
DRIVE: 20 HP

SA2120
EQ SURFACE AERATOR NO.2
SPEC: 46 41 26
DRIVE: 20 HP

SA2130
EQ SURFACE AERATOR NO.3
SPEC: 46 41 26
DRIVE: 20 HP

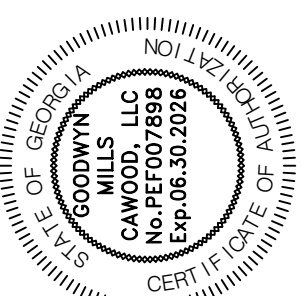
P & ID
EQUALIZATION
BASIN
I-211

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CATL230033



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30% Submittal	05.30.2024
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90% Submittal	11.27.2024
Bid Set	03.19.2025

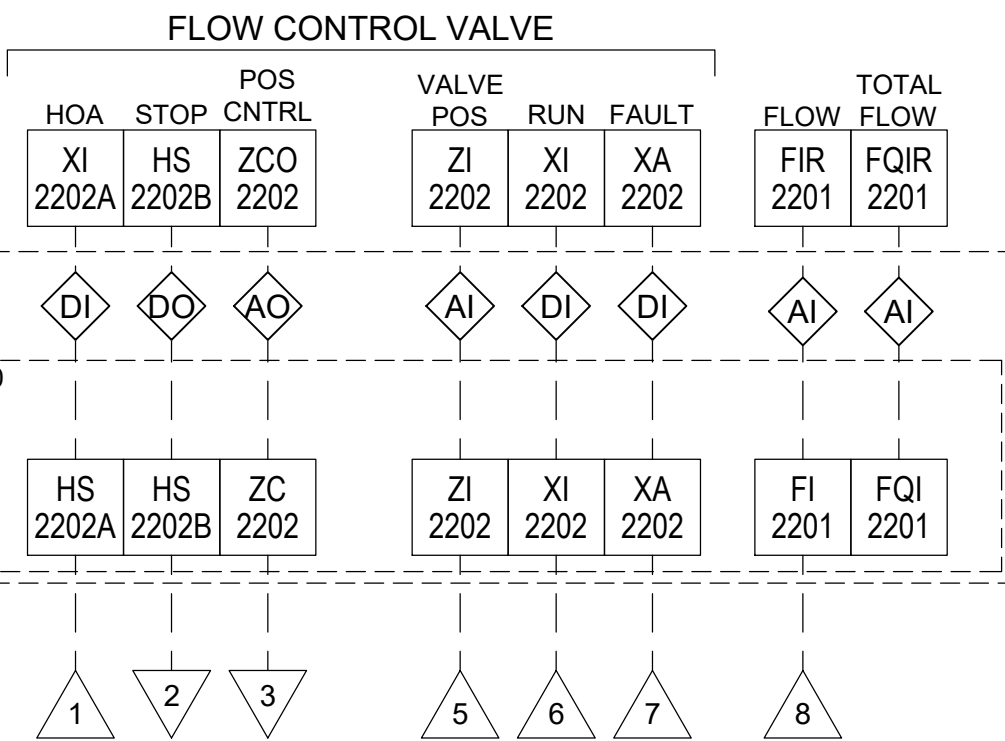
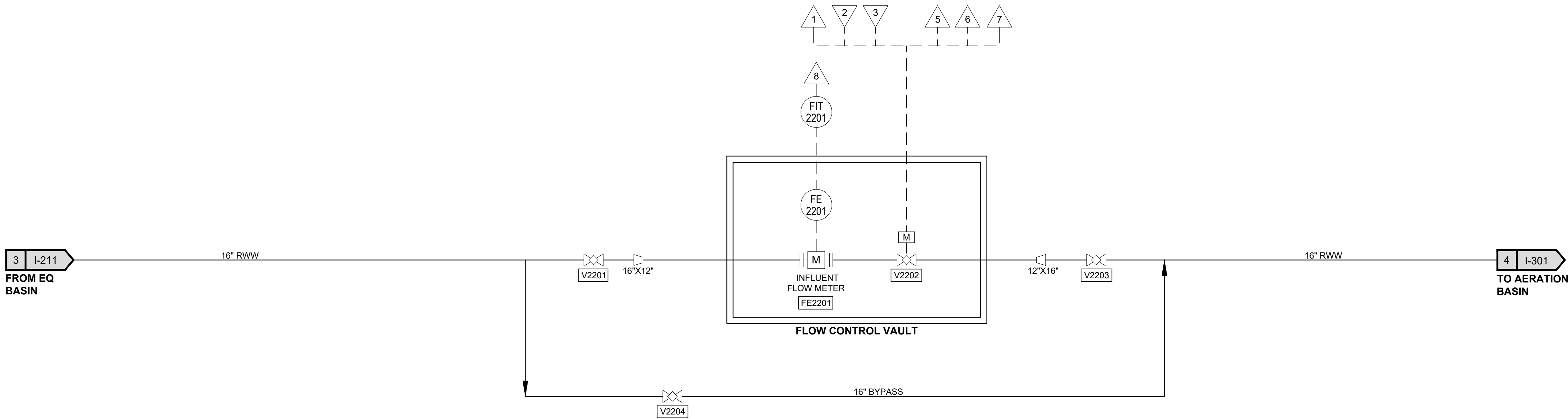
Project Manager:	CW
Engineer:	GS
Designer:	GS
Drawn By:	



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P & ID
FLOW CONTROL
VALVE VAULT

I-221

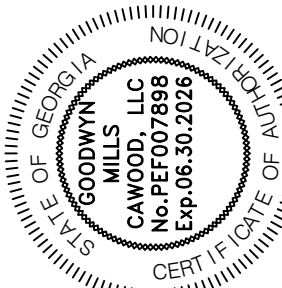
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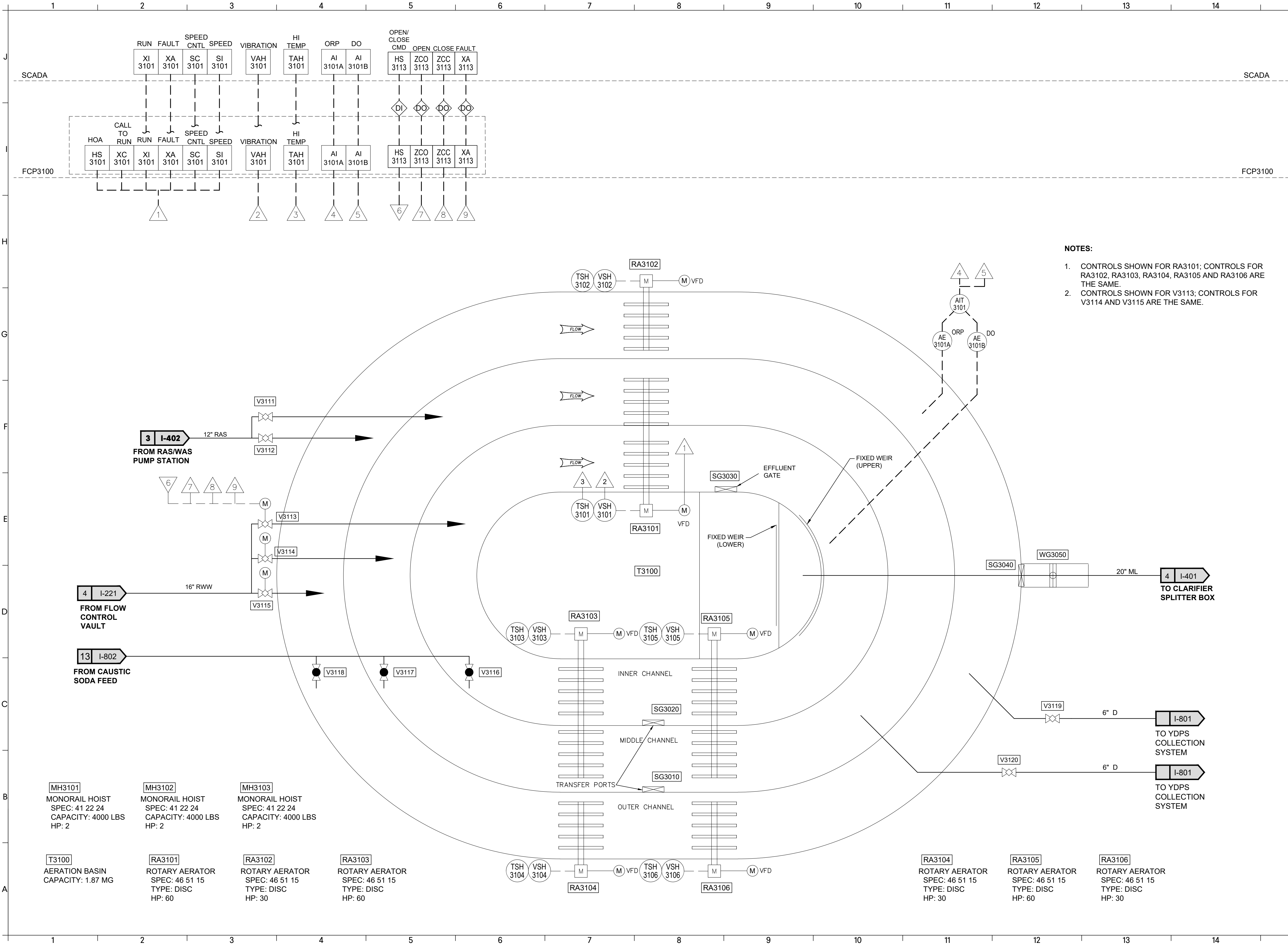


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- NOTES:**
1. CONTROLS SHOWN FOR RA3101; CONTROLS FOR RA3102, RA3103, RA3104, RA3105 AND RA3106 ARE THE SAME.
 2. CONTROLS SHOWN FOR V3113; CONTROLS FOR V3114 AND V3115 ARE THE SAME.

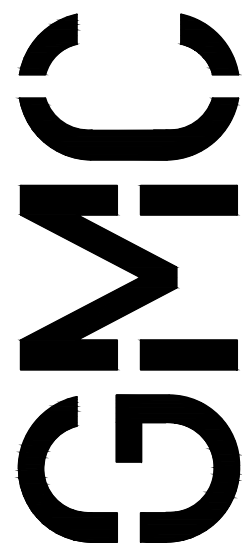
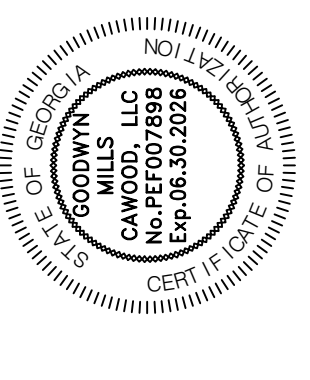
P & ID
AERATION BASIN

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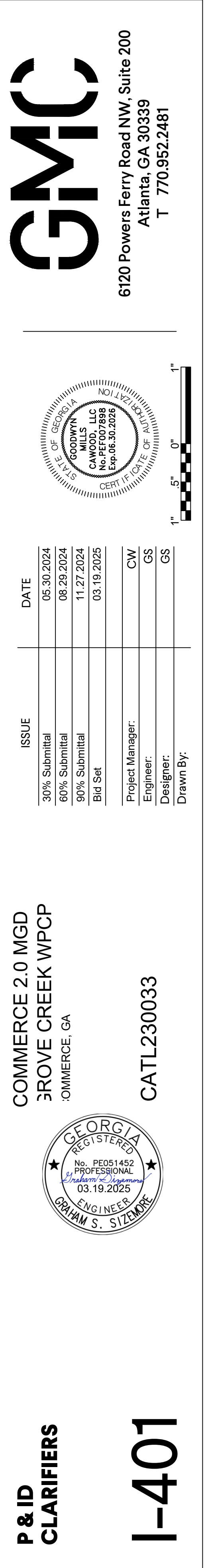
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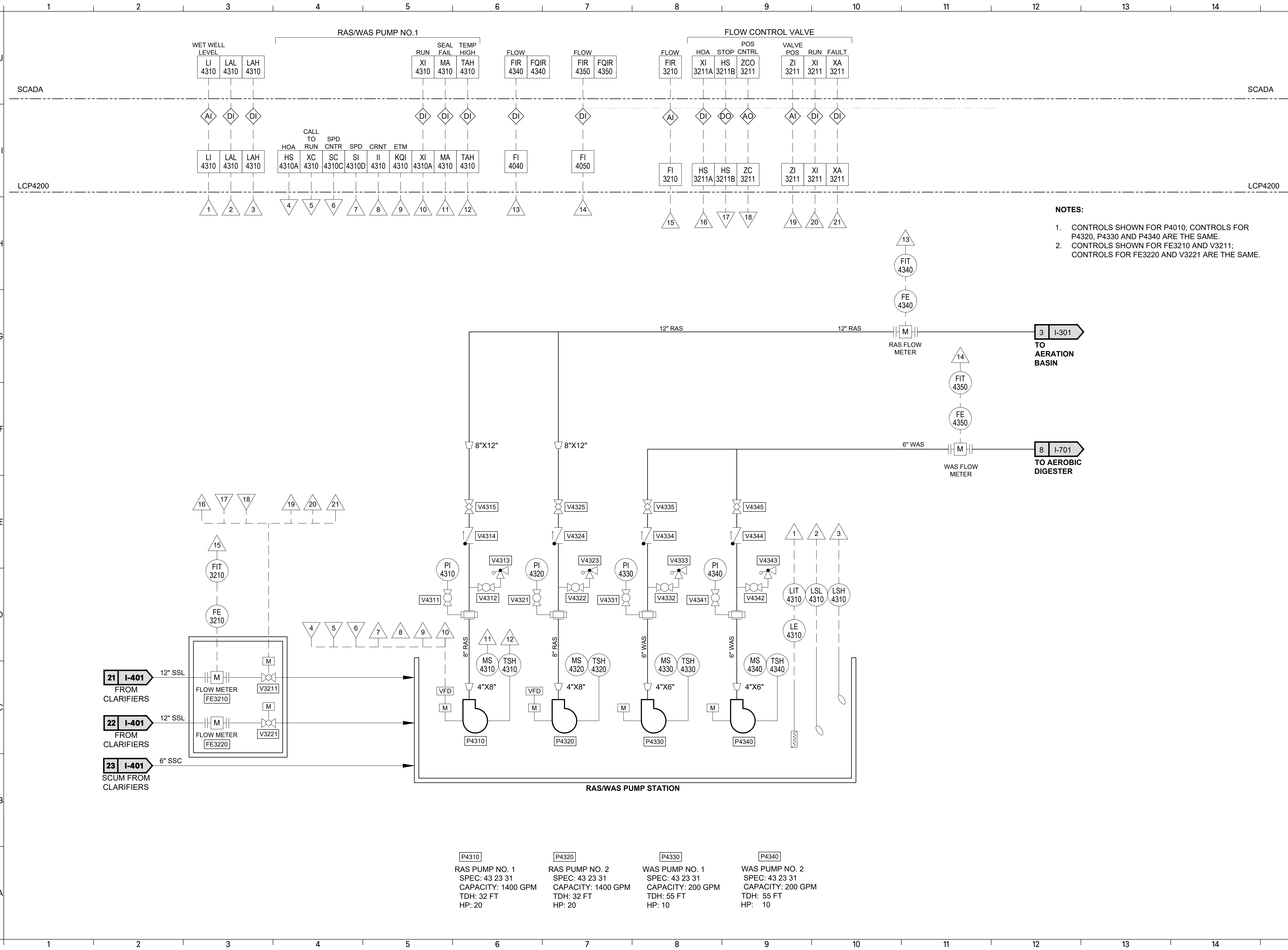


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I-301



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P & ID
RAS/WAS
PUMP STATION
I-402

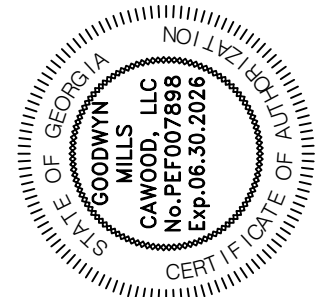


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Designer:	GS
Drawn By:	

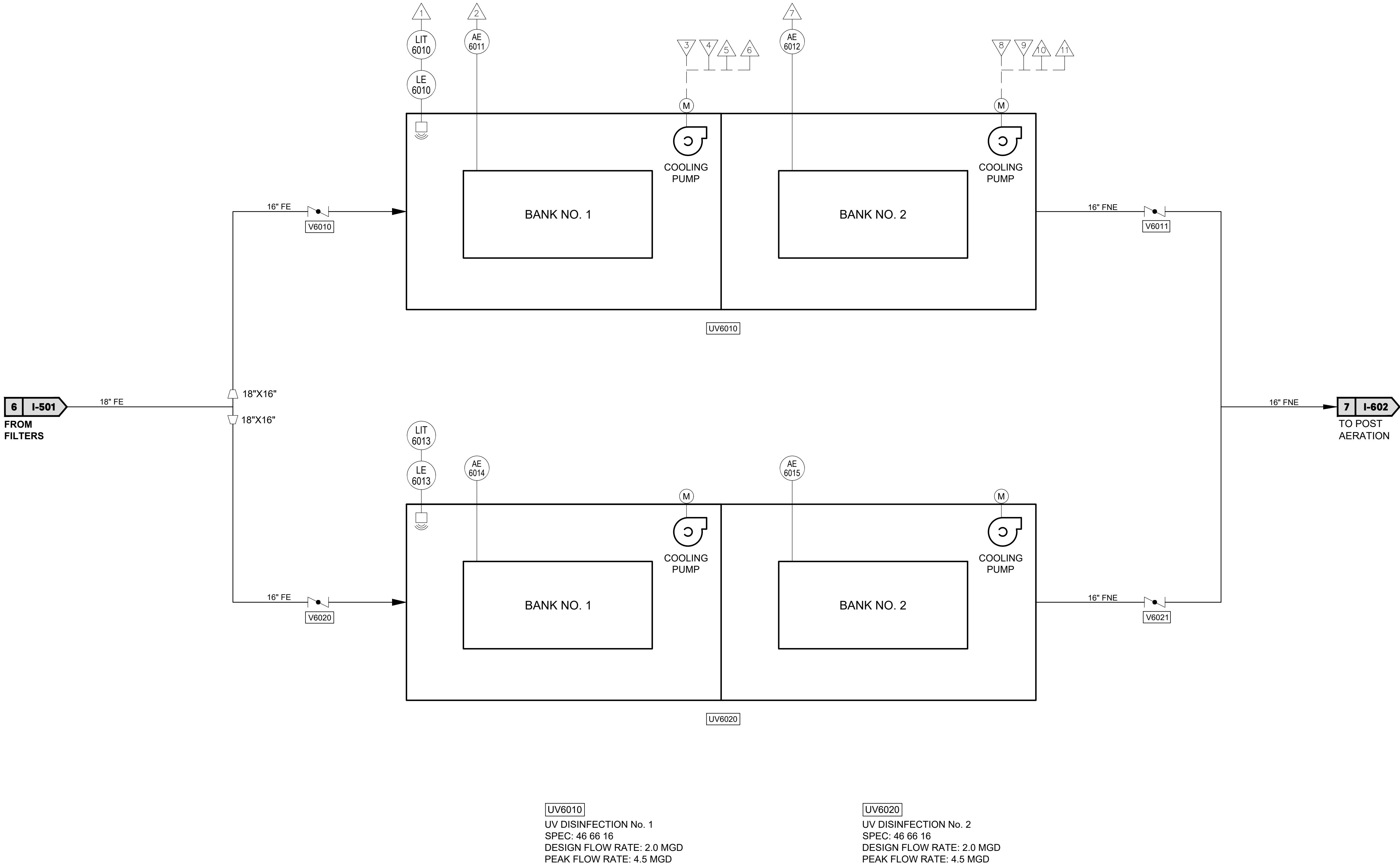


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PLOTTED: Mar 19, 2025 - 11:37am

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NOTES:

1. CONTROLS SHOWN FOR UV6010; CONTROLS FOR UV6020 ARE THE SAME.

P & ID
UV DISINFECTION

I-601

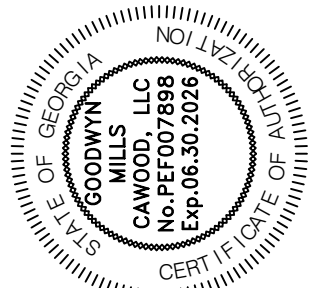
COMMERCE 2.0 MGD
GROVE CREEK WPCP
COMMERCE, GA

CATL230033



ISSUE	DATE
30% Submittal	05.30.2024
60% Submittal	08.29.2024
90% Submittal	11.27.2024
Bid Set	03.19.2025

Project Manager:	CW
Engineer:	GS
Designer:	GS
Drawn By:	

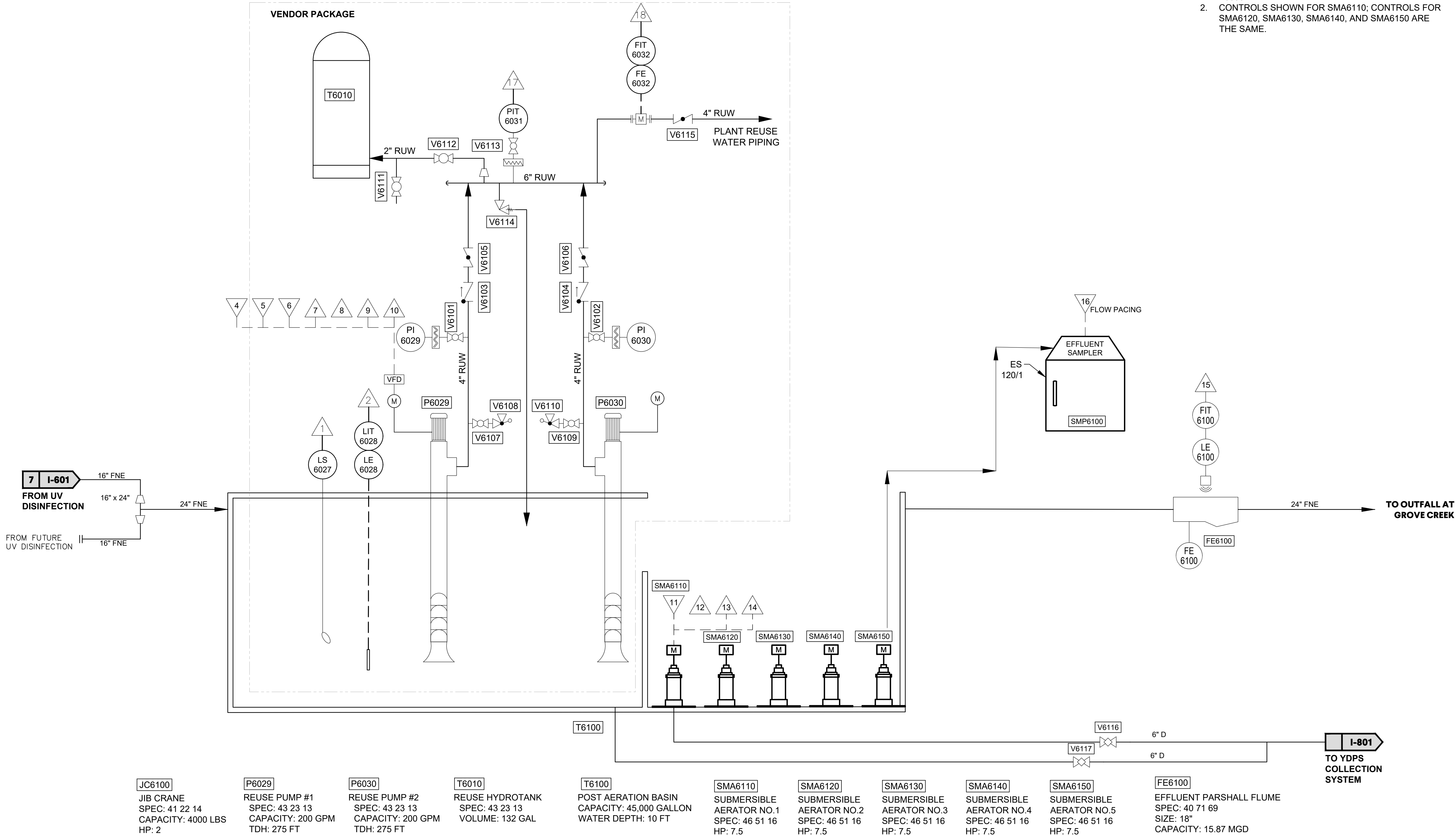


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PLOTTED: Mar 18, 2025 - 11:37am

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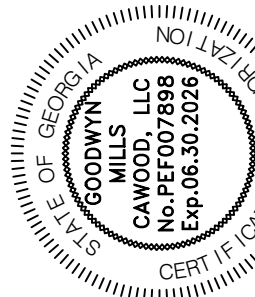
COMMERCE 2.0 MGD
GROVE CREEK WPCP
COMMERCE, GA



P & ID
PLANT REUSE WATER
PUMP STATION &
POST AERATION
I-602

ISSUE	DATE
30% Submittal	05.30.2024
60% Submittal	08.29.2024
90% Submittal	11.27.2024
Bid Set	03.19.2025

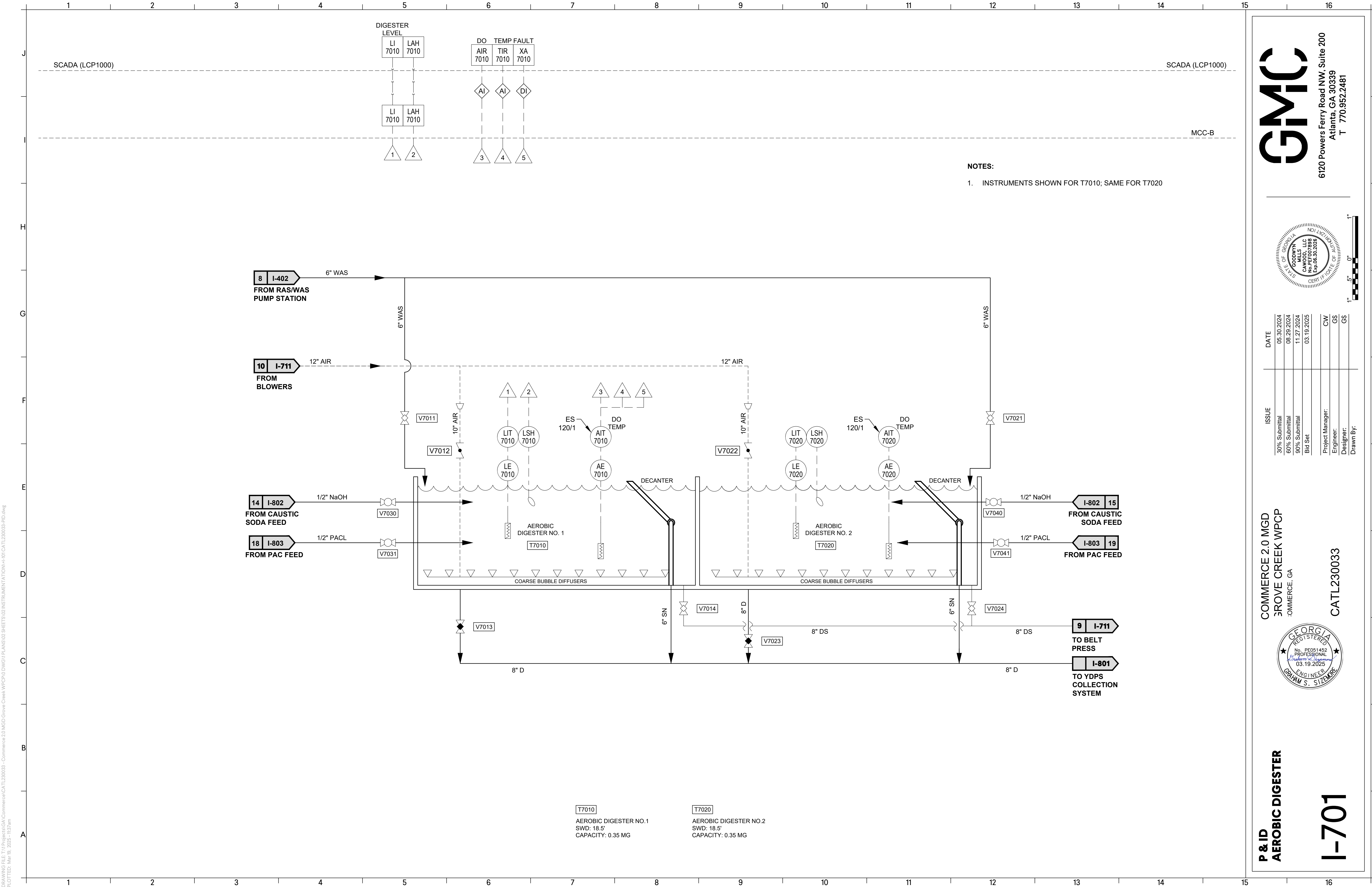
Project Manager:	CW
Engineer:	GS
Designer:	GS
Drawn By:	



CATL230033

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PLOTTED: Mar 19, 2025 - 11:37am



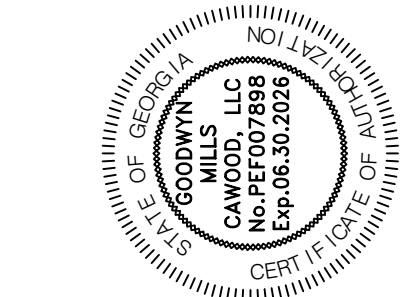
NOTES:
1. INSTRUMENTS SHOWN FOR T7010; SAME FOR T7020

P & ID
AEROBIC DIGESTER

I-701

COMMERCE 2.0 MGD
GROVE CREEK WPCP
COMMERCE, GA

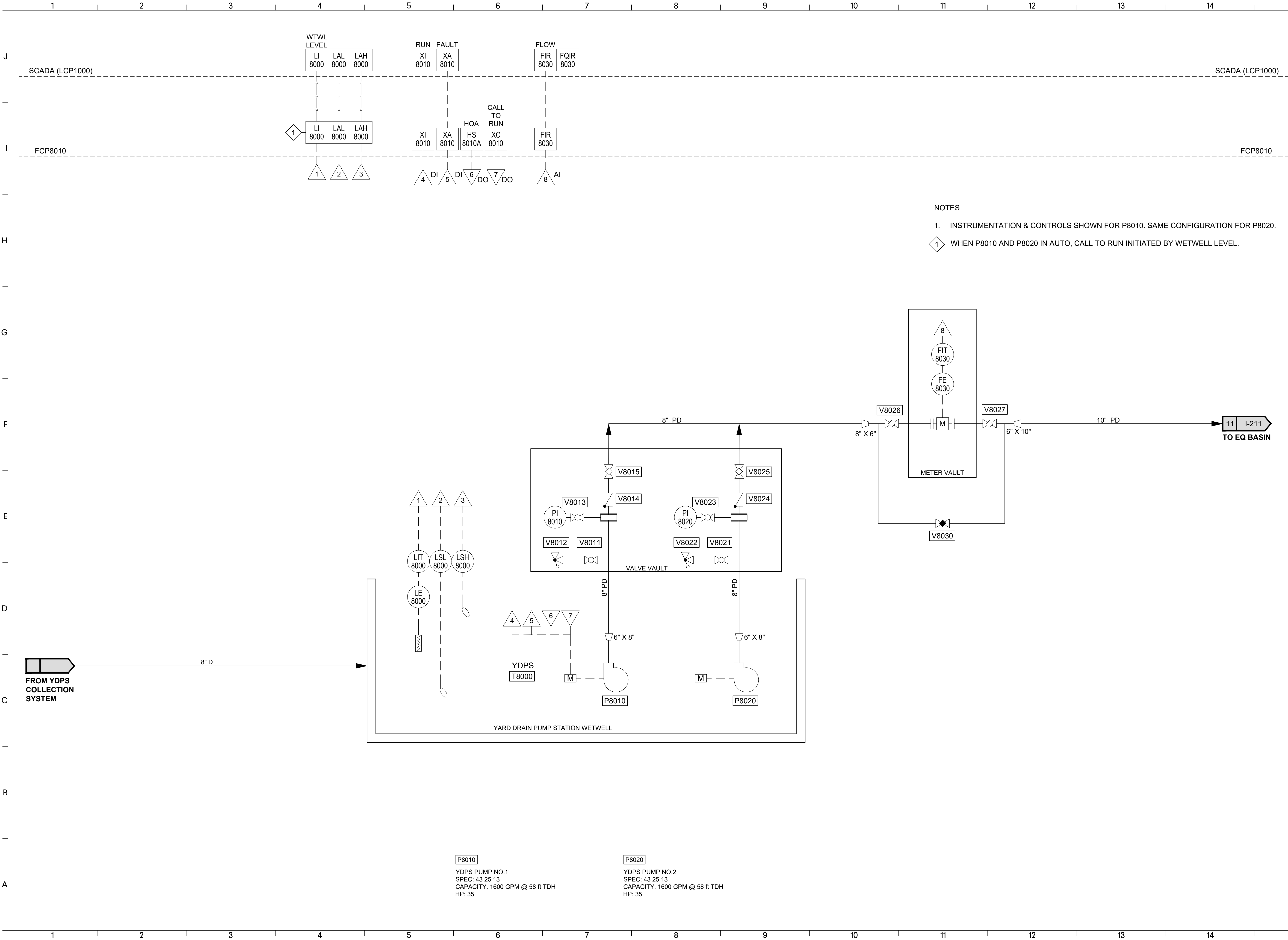
CATL230033



ISSUE	DATE	
30% Submittal	05.30.2024	
60% Submittal	08.29.2024	
90% Submittal	11.27.2024	
Bid Set	03.19.2025	
Project Manager:	CW	
Engineer:	GS	
Designer:	GS	
Drawn By:		

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6120 Powers Ferry Road NW, Suite 200
Atlanta, GA 30339
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PLOTTED: Mar 19, 2025 - 11:37am



P & ID
YARD DRAIN
PUMP STATION
I-801

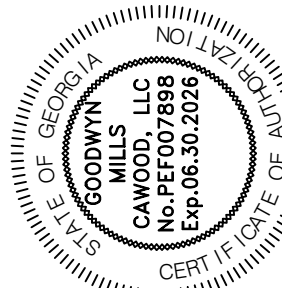
COMMERCE 2.0 MGD
GROVE CREEK WPCP
COMMERCE, GA

CATL230033



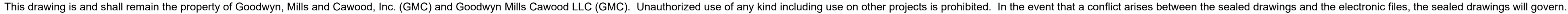
ISSUE	DATE
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Project Manager:	CW
Engineer:	GS
Designer:	GS
Drawn By:	

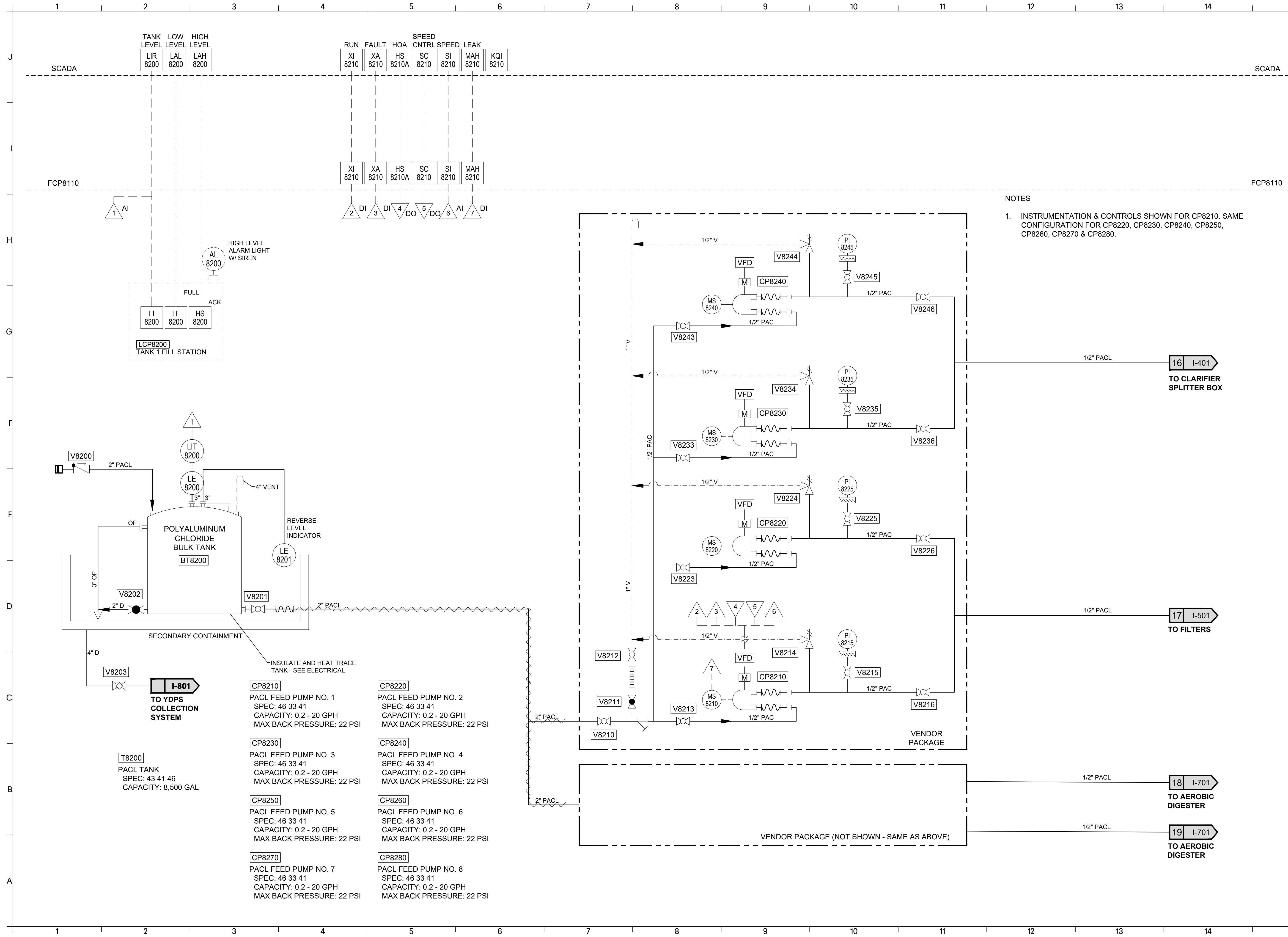


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PLOTTED: Mar 18, 2025 - 11:37am



NOTES

1. INSTRUMENTATION & CONTROLS SHOWN FOR CP8210. SAME CONFIGURATION FOR CP8220, CP8230, CP8240, CP8250, CP8260, CP8270 & CP8280.

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DATE	05.30.2024
08.29.2024	
11.27.2024	
03.19.2025	
ISSUE	
30% Submittal	
60% Submittal	
90% Submittal	
Bid Set	
Project Manager:	CW
Engineer:	GS
Designer:	GS
Drawn By:	

COMMERCE 2.0 MGD
GROVE CREEK WPCP
COMMERCE, GA

CATL230033

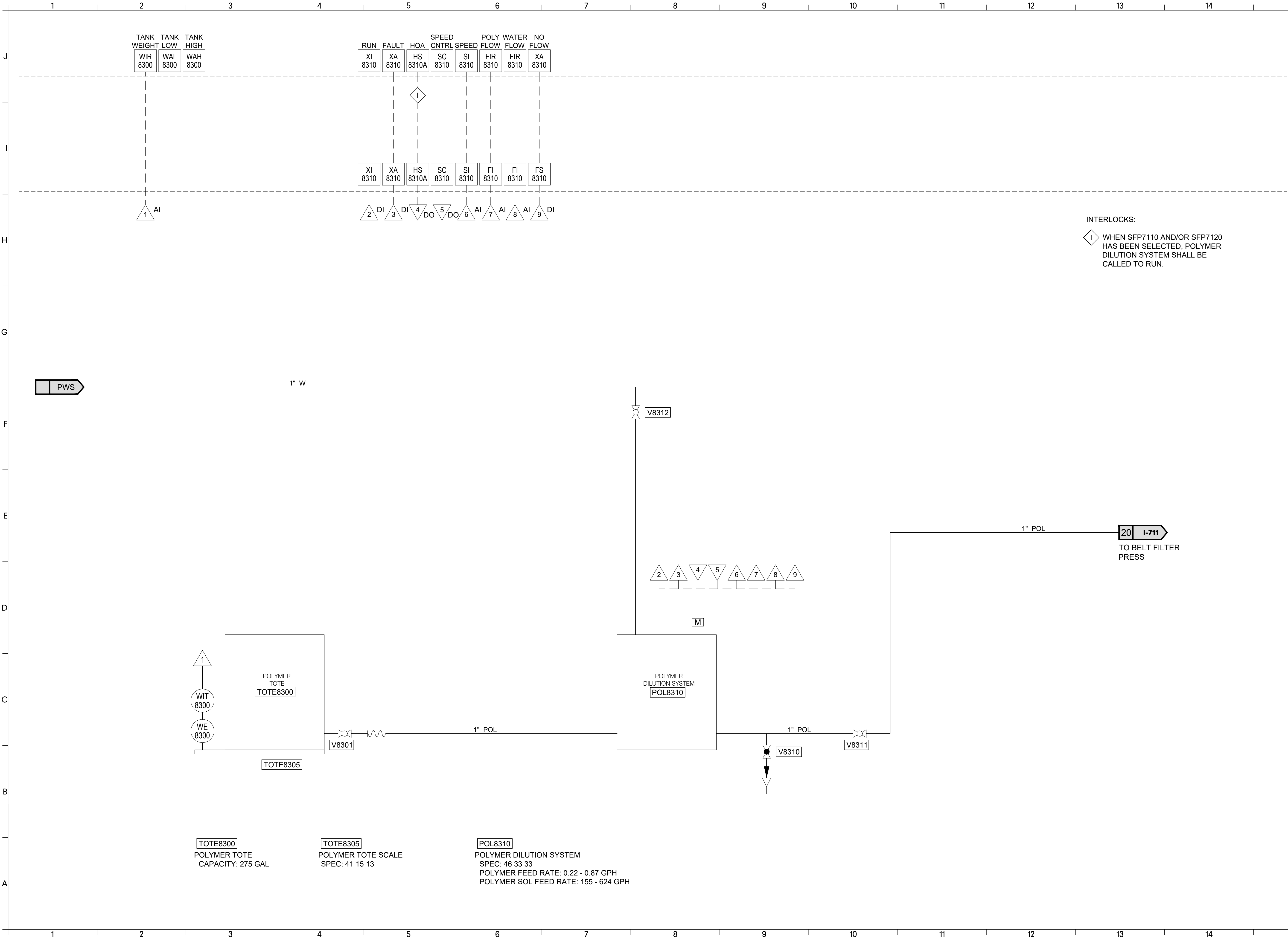


P & ID

**CHEMICAL FEED -
POLYALUMINUM
CHLORIDE**

I-803

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PLOTTED: Mar 19, 2025 - 11:37am



INTERLOCKS:
I WHEN SFP7110 AND/OR SFP7120 HAS BEEN SELECTED, POLYMER DILUTION SYSTEM SHALL BE CALLED TO RUN.

P & ID
CHEMICAL FEED -
POLYMER
I-804

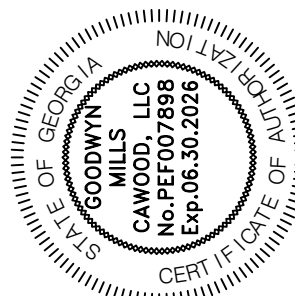
COMMERCE 2.0 MGD
GROVE CREEK WPCP
COMMERCE, GA



CATL230033

ISSUE	DATE
30% Submittal	05.30.2024
60% Submittal	08.29.2024
90% Submittal	11.27.2024
Bid Set	03.19.2025

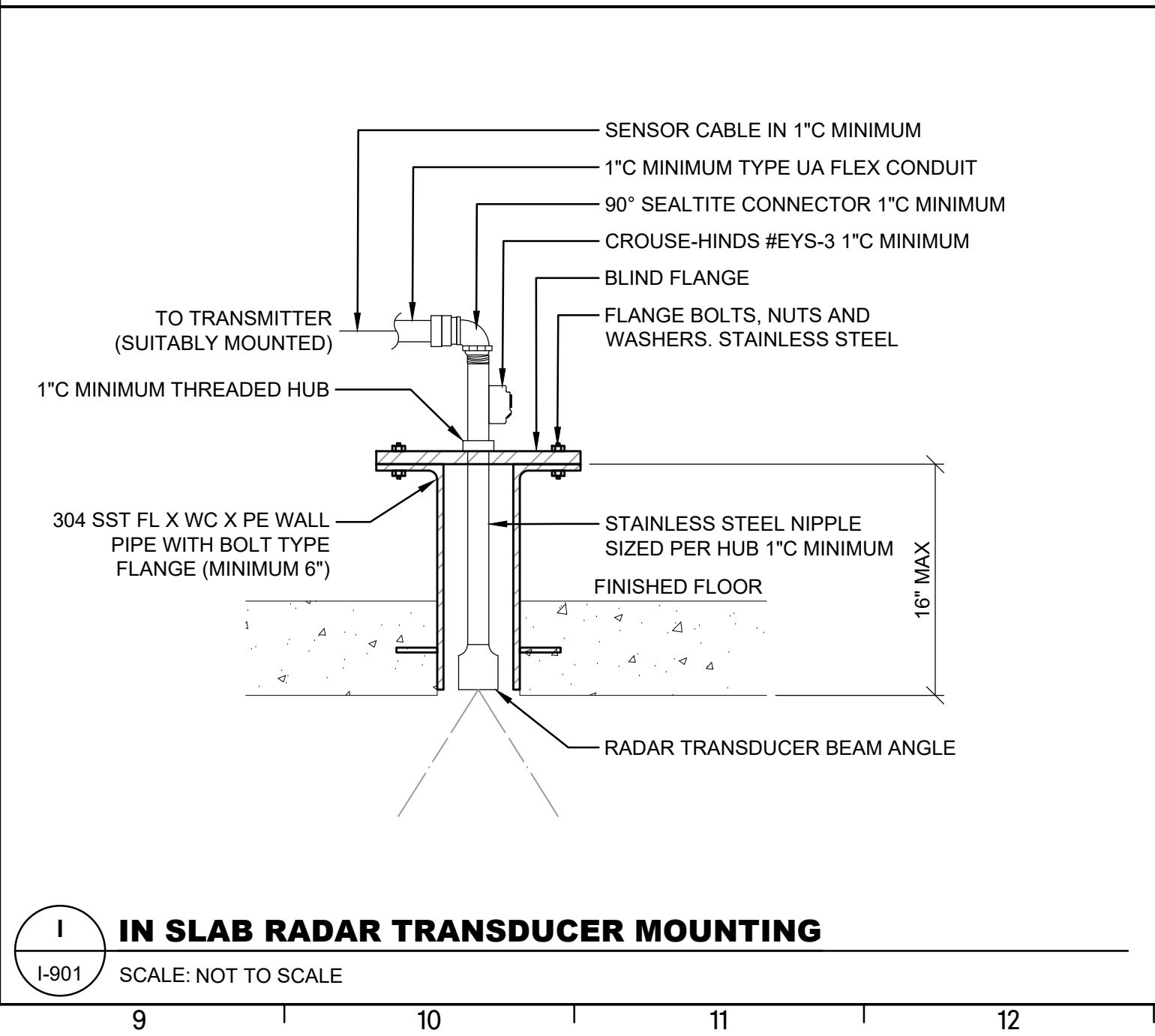
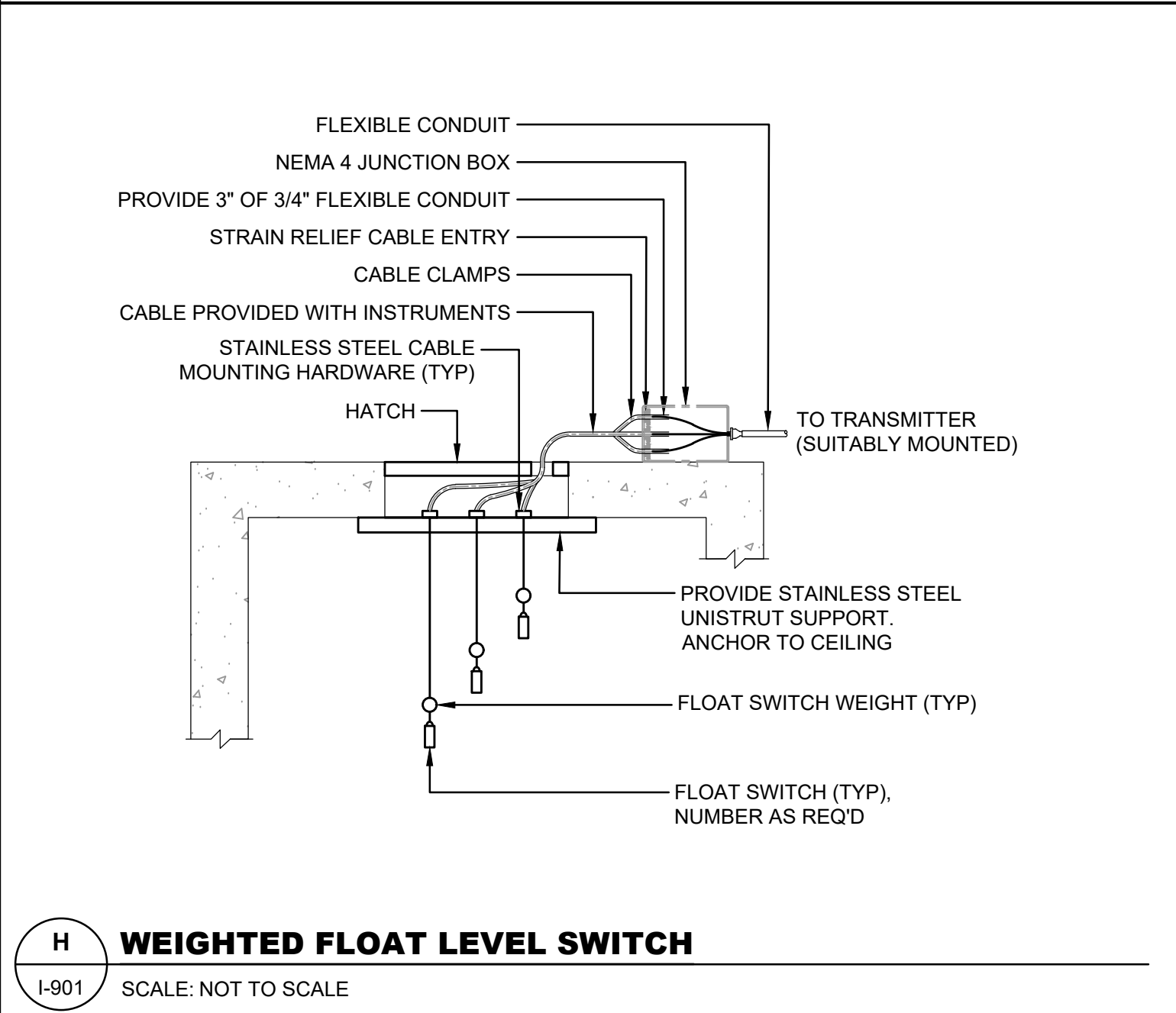
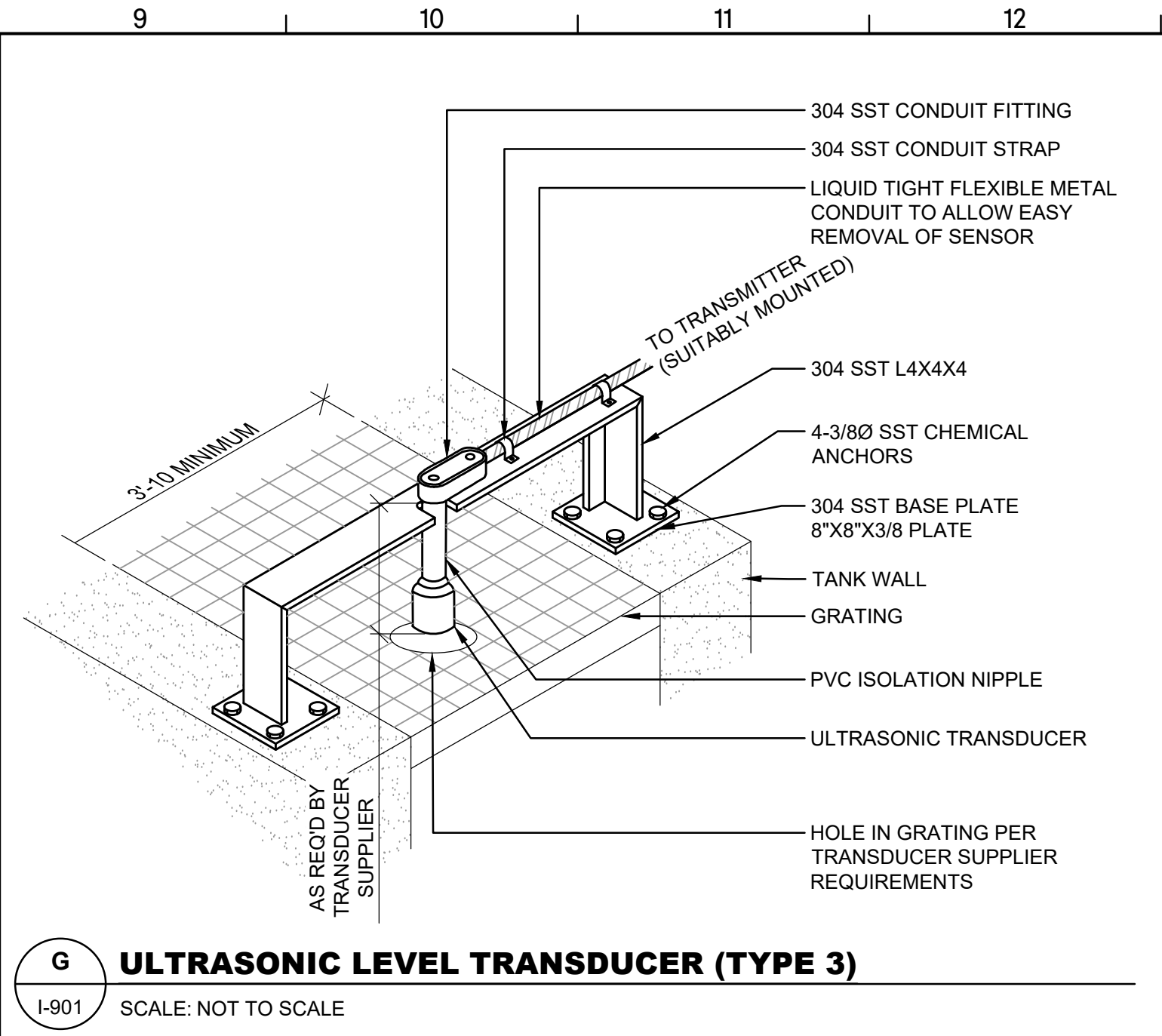
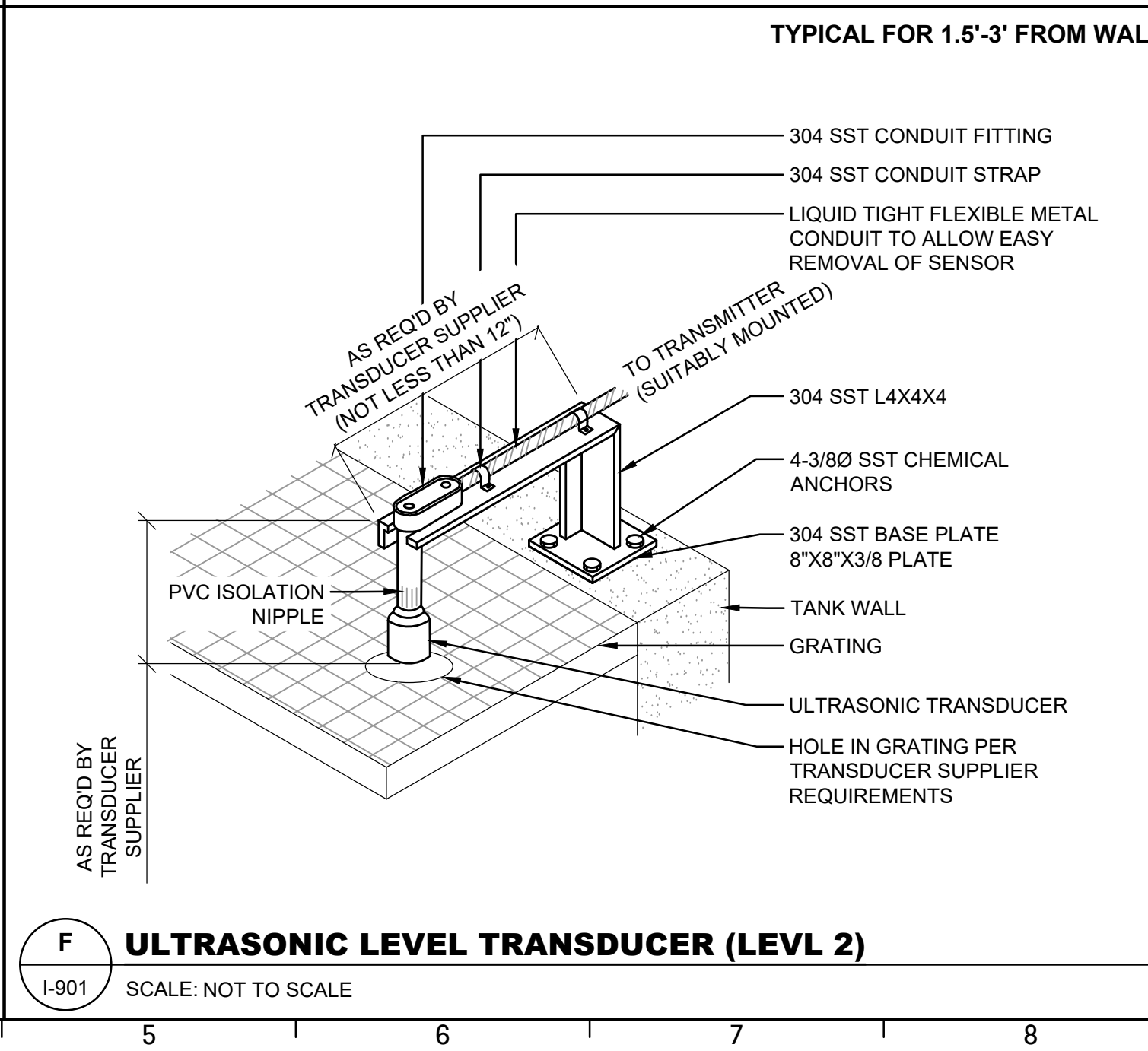
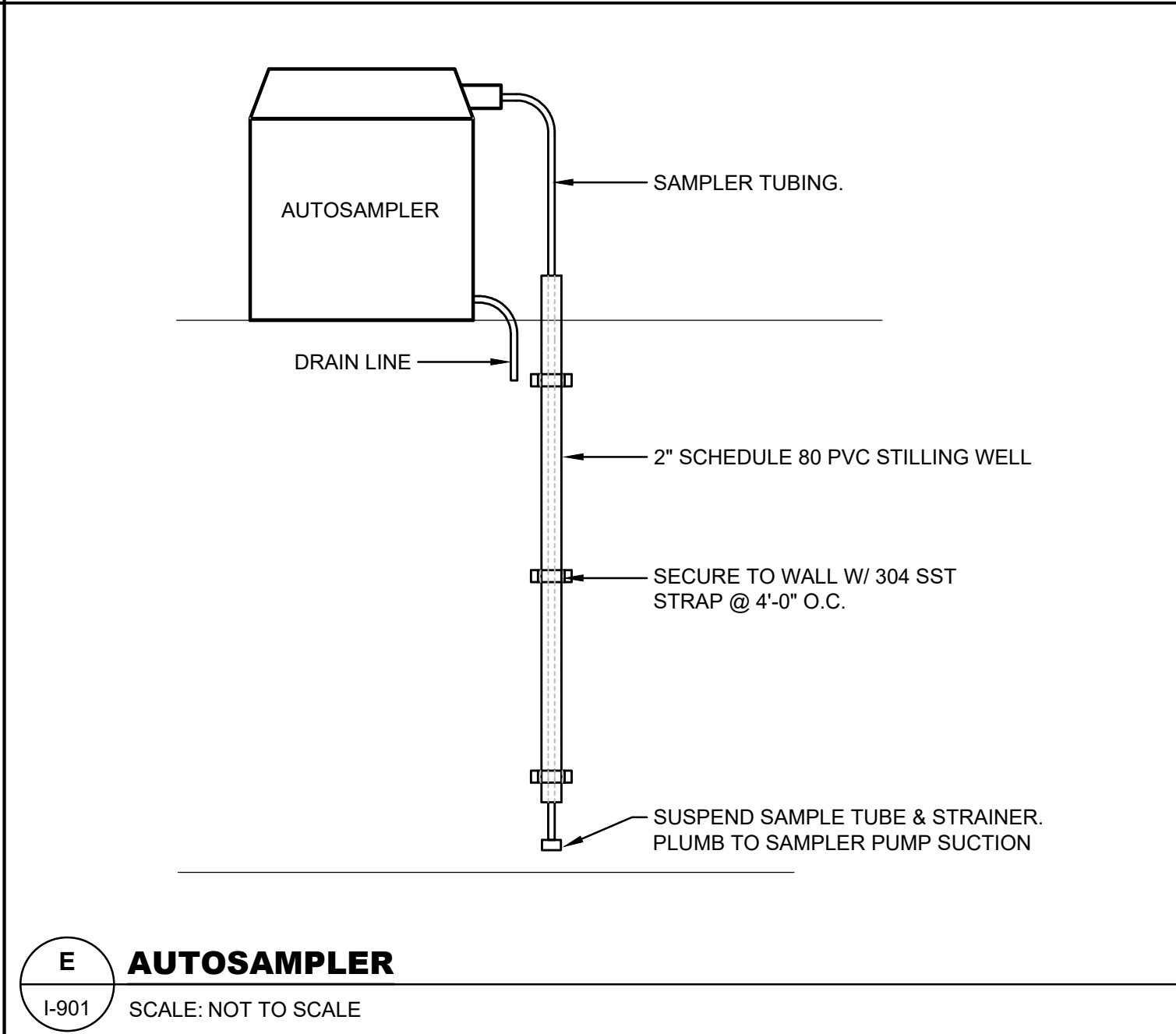
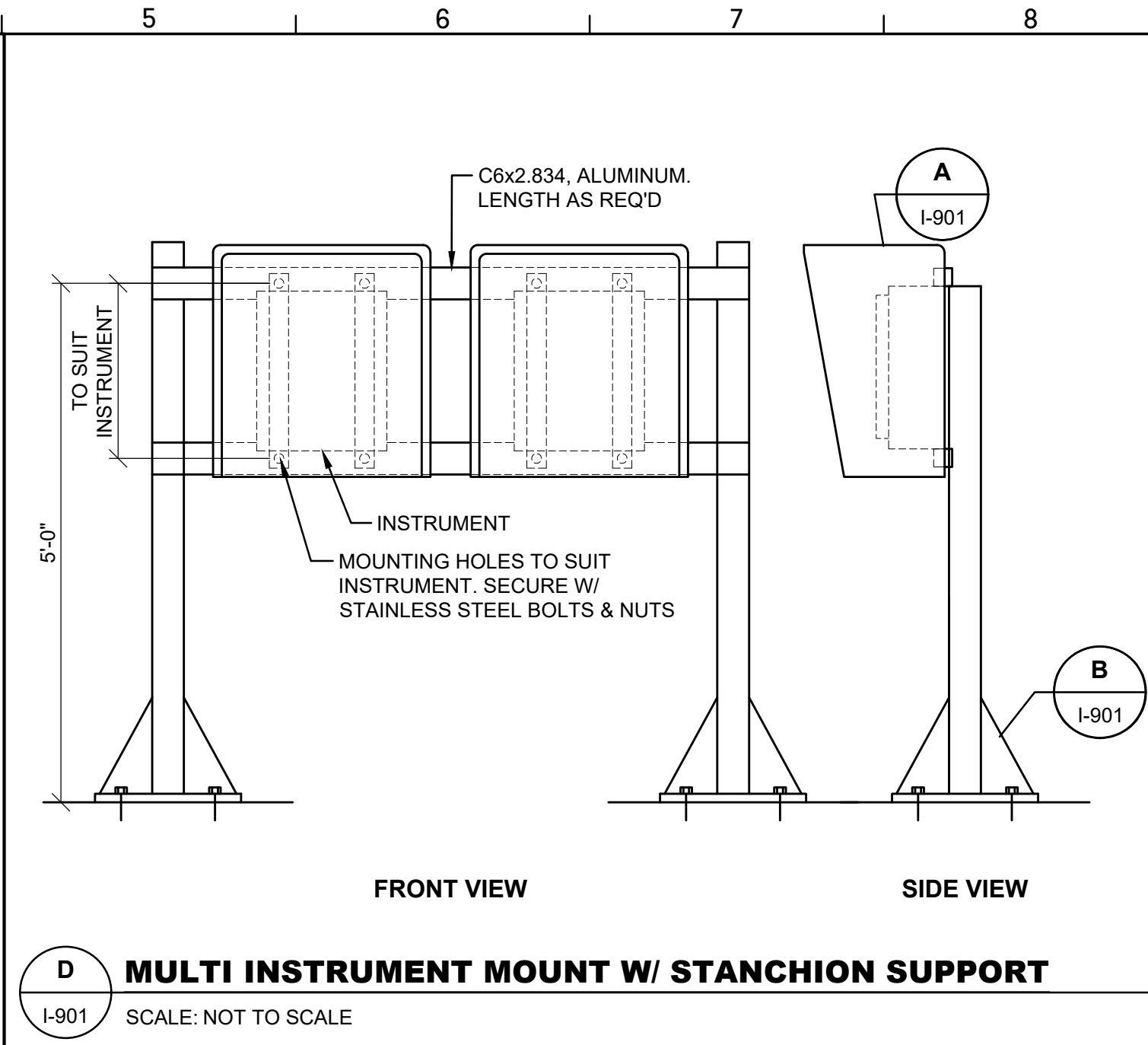
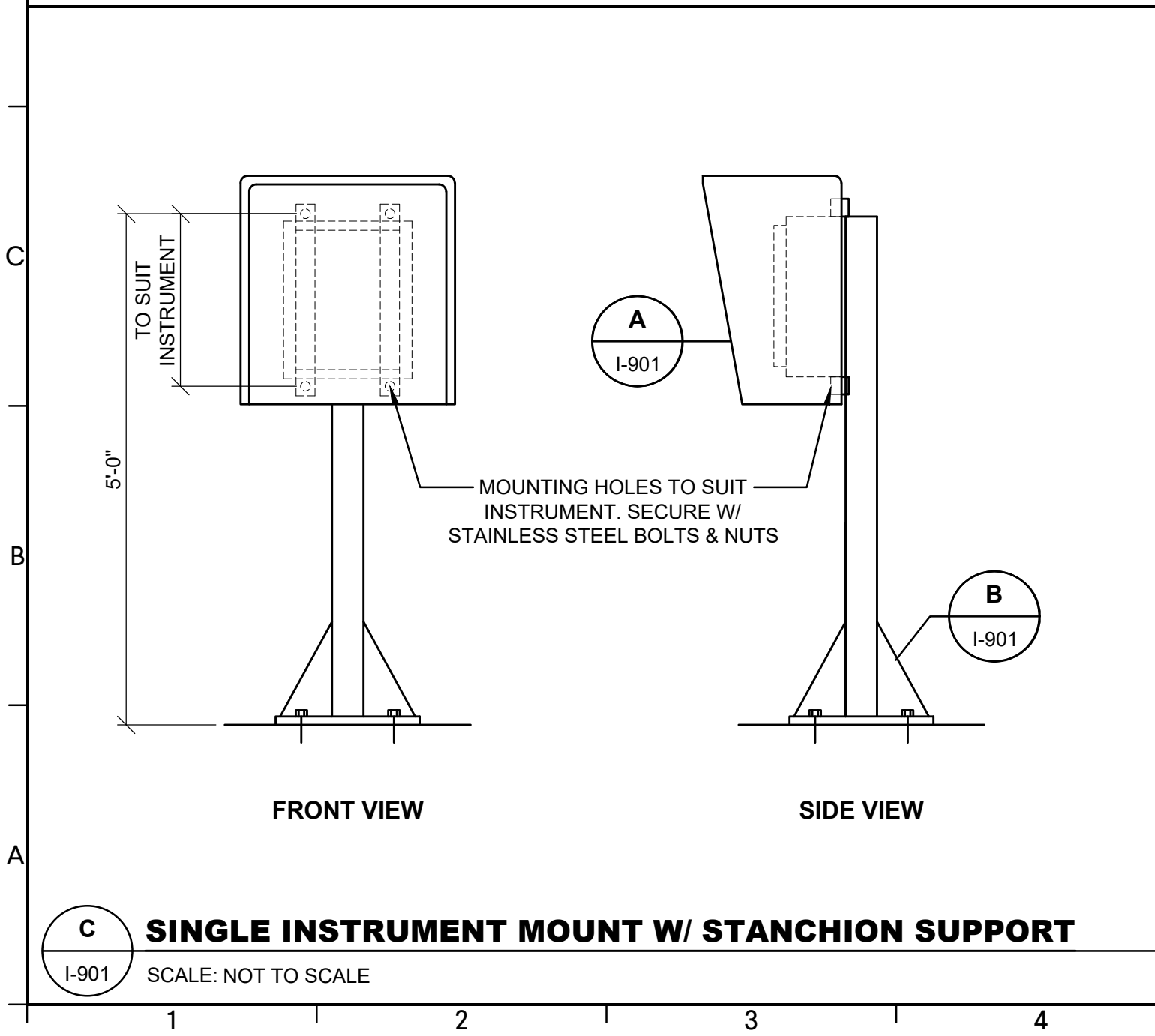
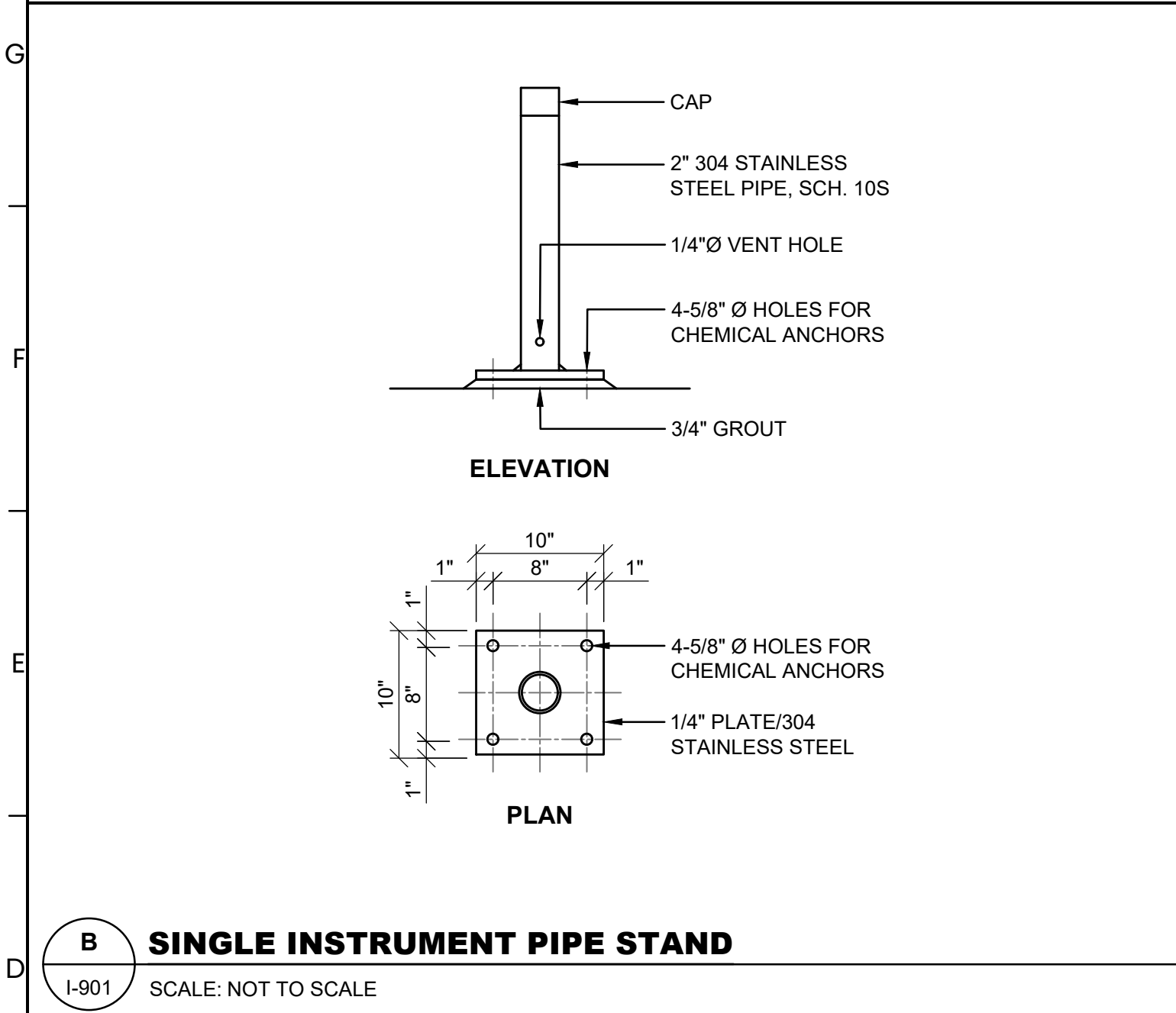
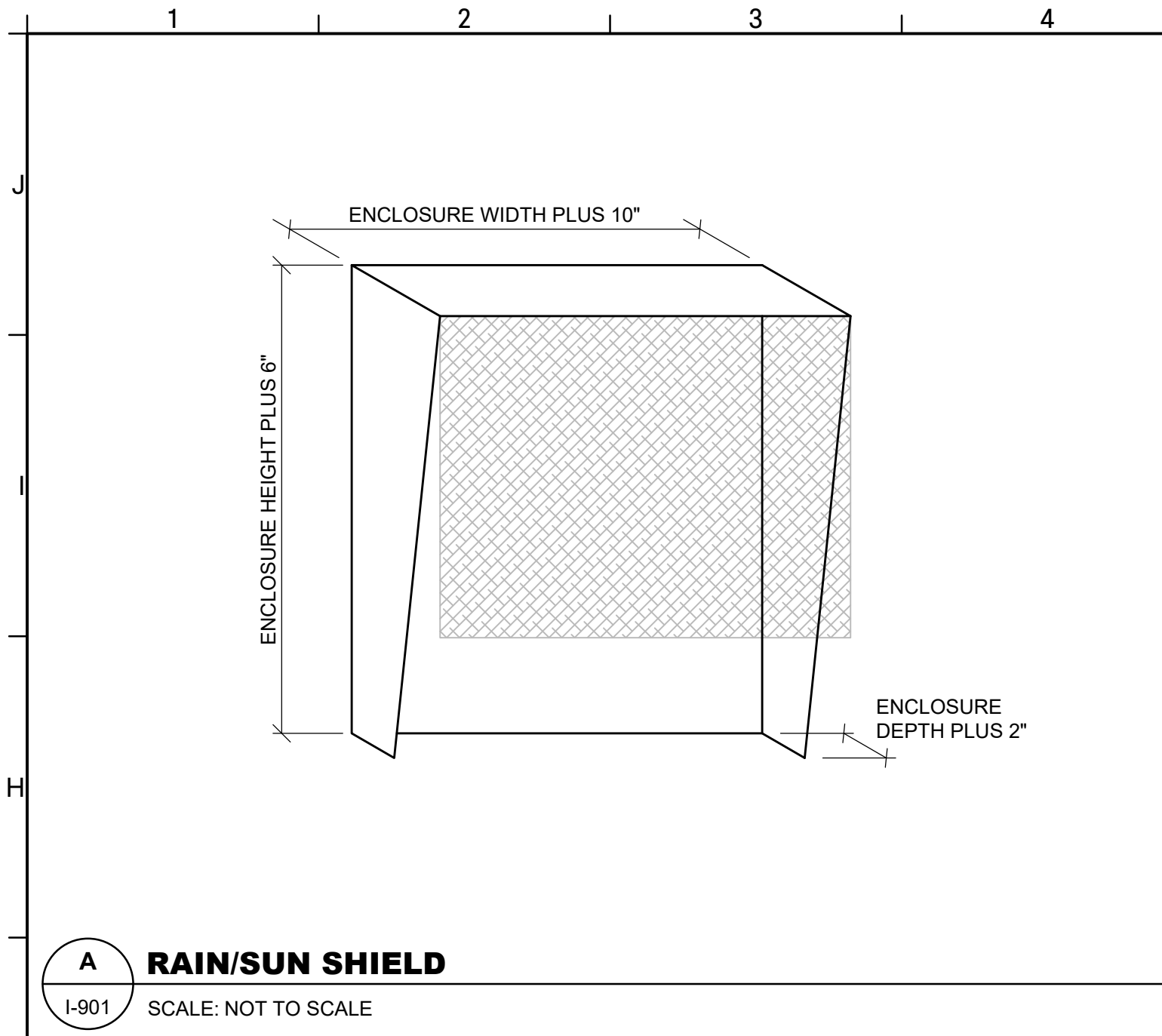
Project Manager:	CW
Engineer:	GS
Designer:	GS
Drawn By:	



GMC

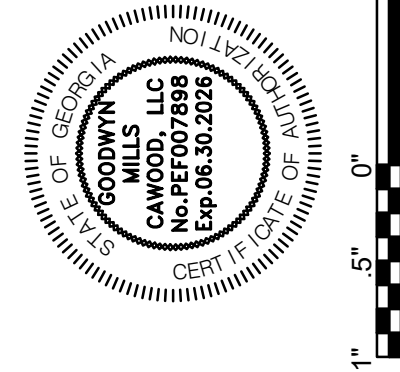
6120 Powers Ferry Road NW, Suite 200
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T 770.952.2481

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PLOTTED: Mar 18, 2025 - 1:37am



GMC

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Atlanta, GA 30339
T 770.952.2481



ISSUE	DATE	PROJECT MANAGER	ENGINEER	DRAWN BY
30% Submittal	05.30.2024	CW	GS	
60% Submittal	08.29.2024			
90% Submittal	11.27.2024			
Bid Set	03.19.2025			

COMMERCE 2.0 MGD
GROVE CREEK WPCP
COMMERCE, GA

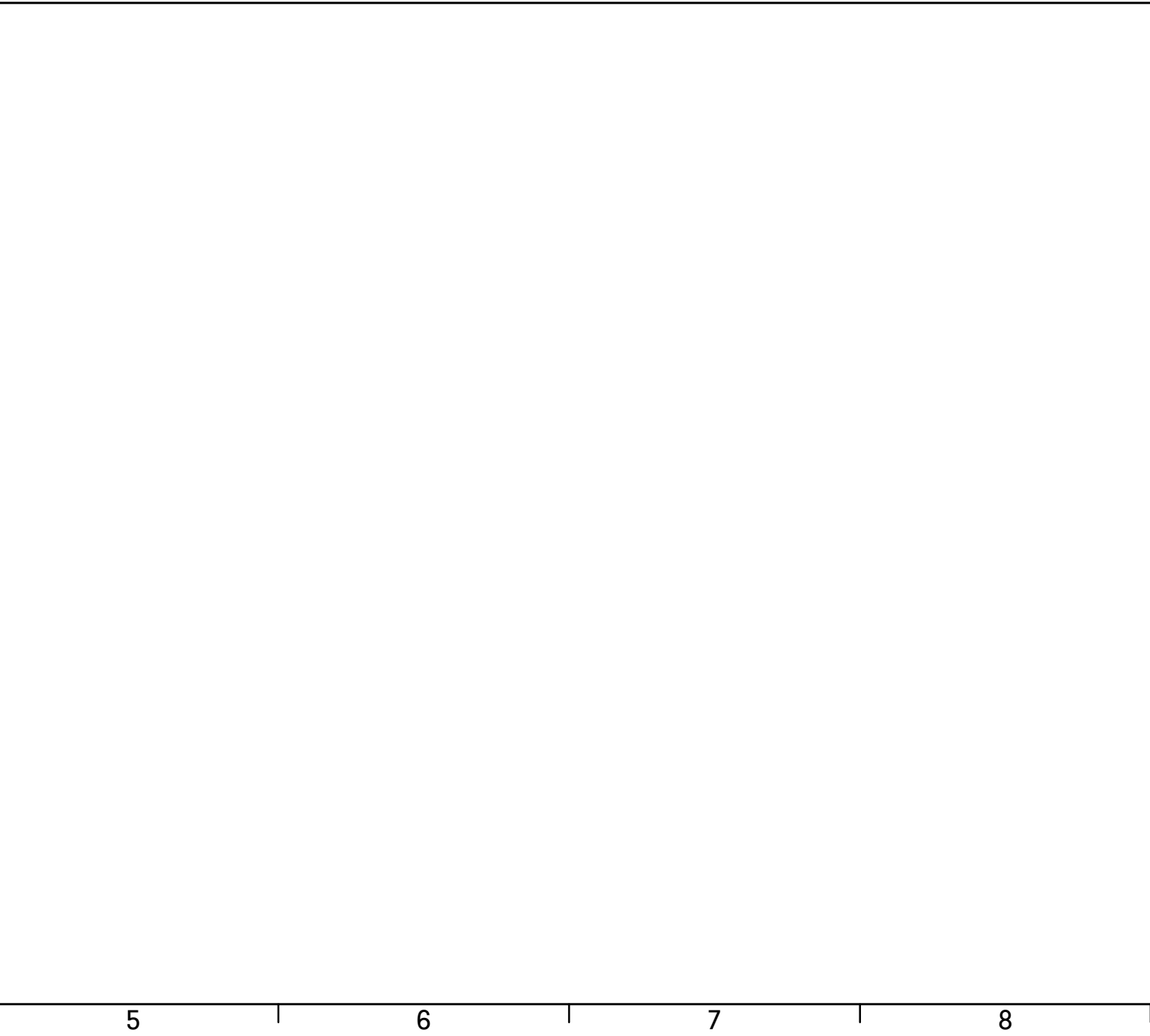
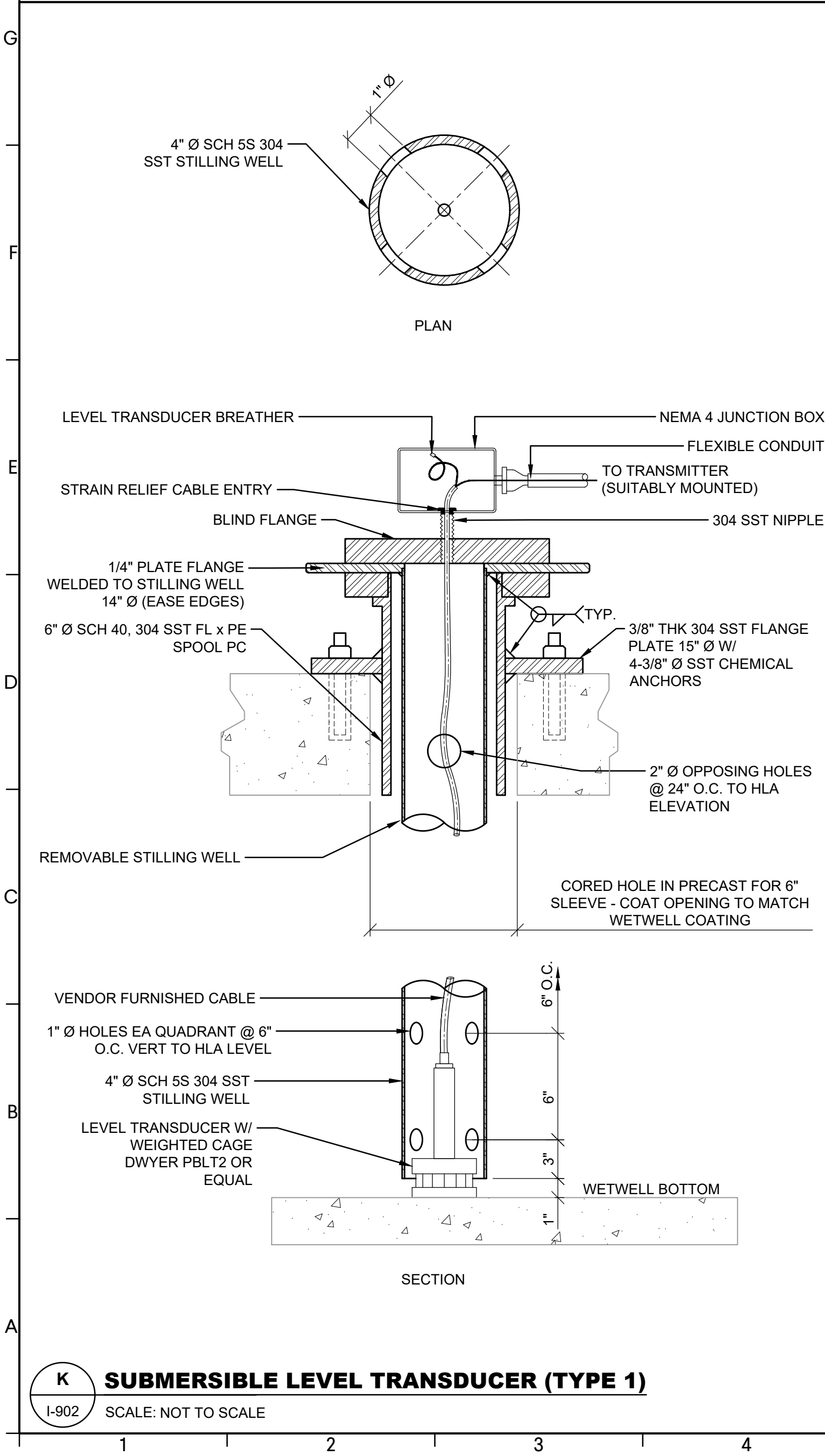
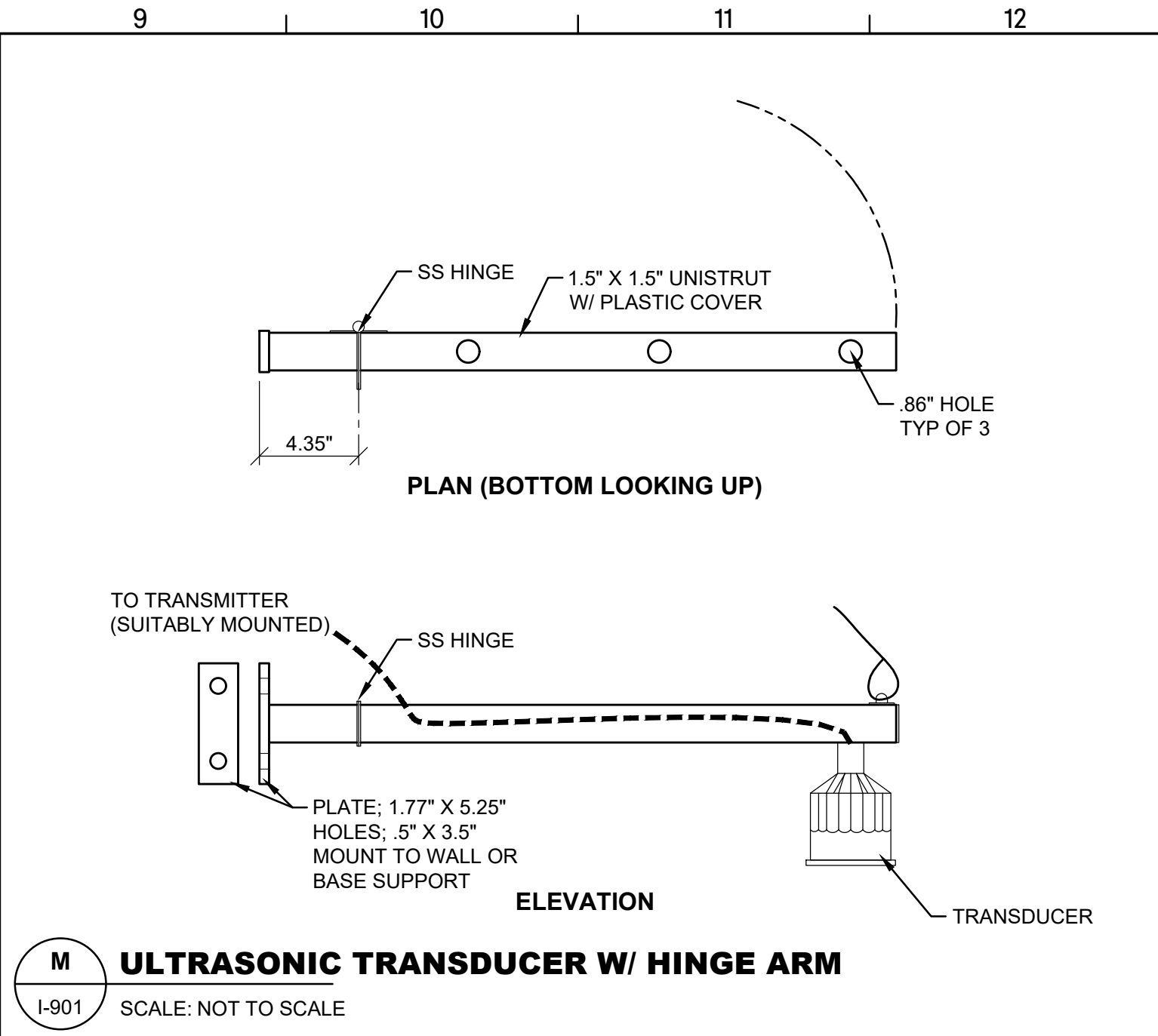
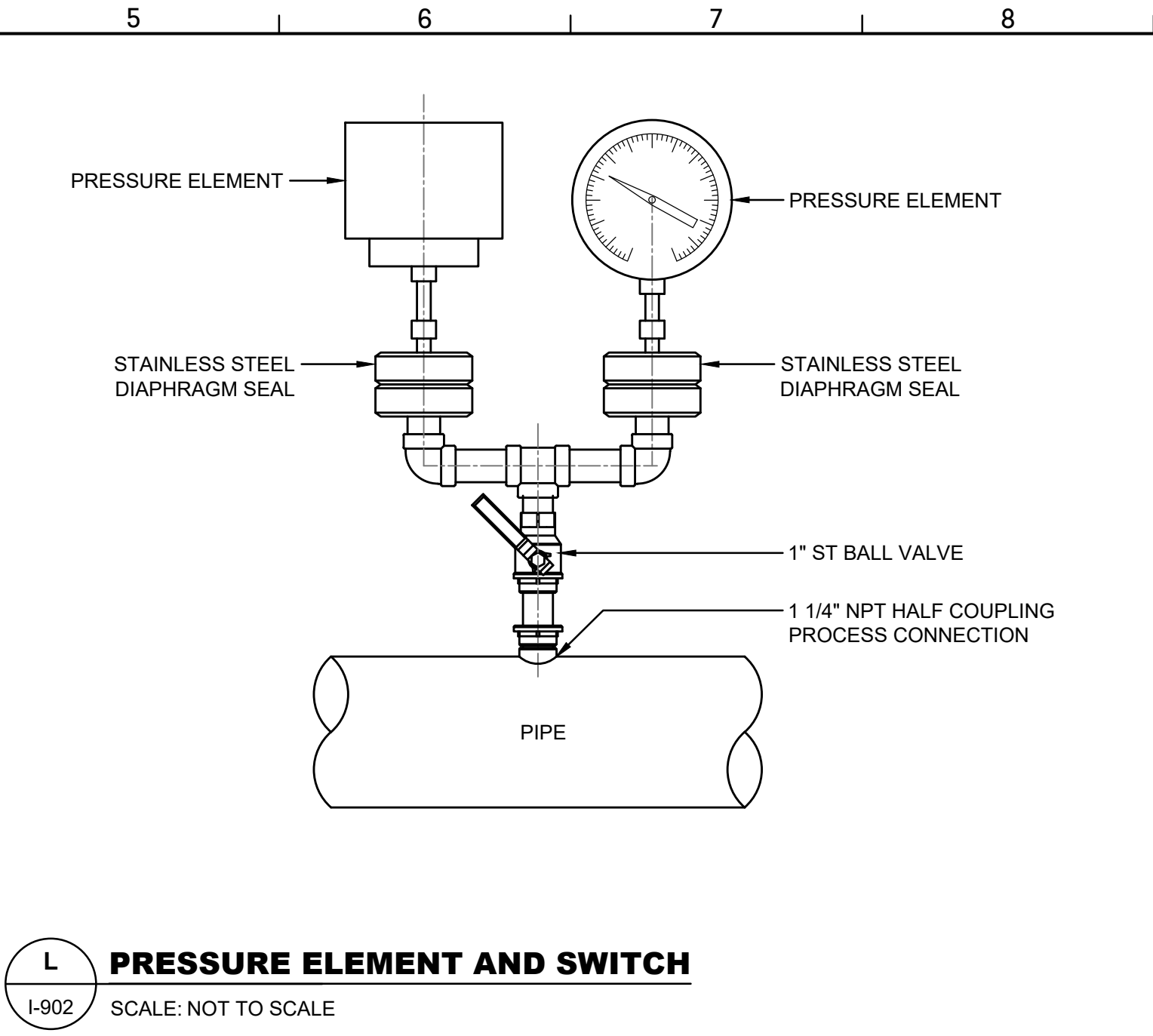
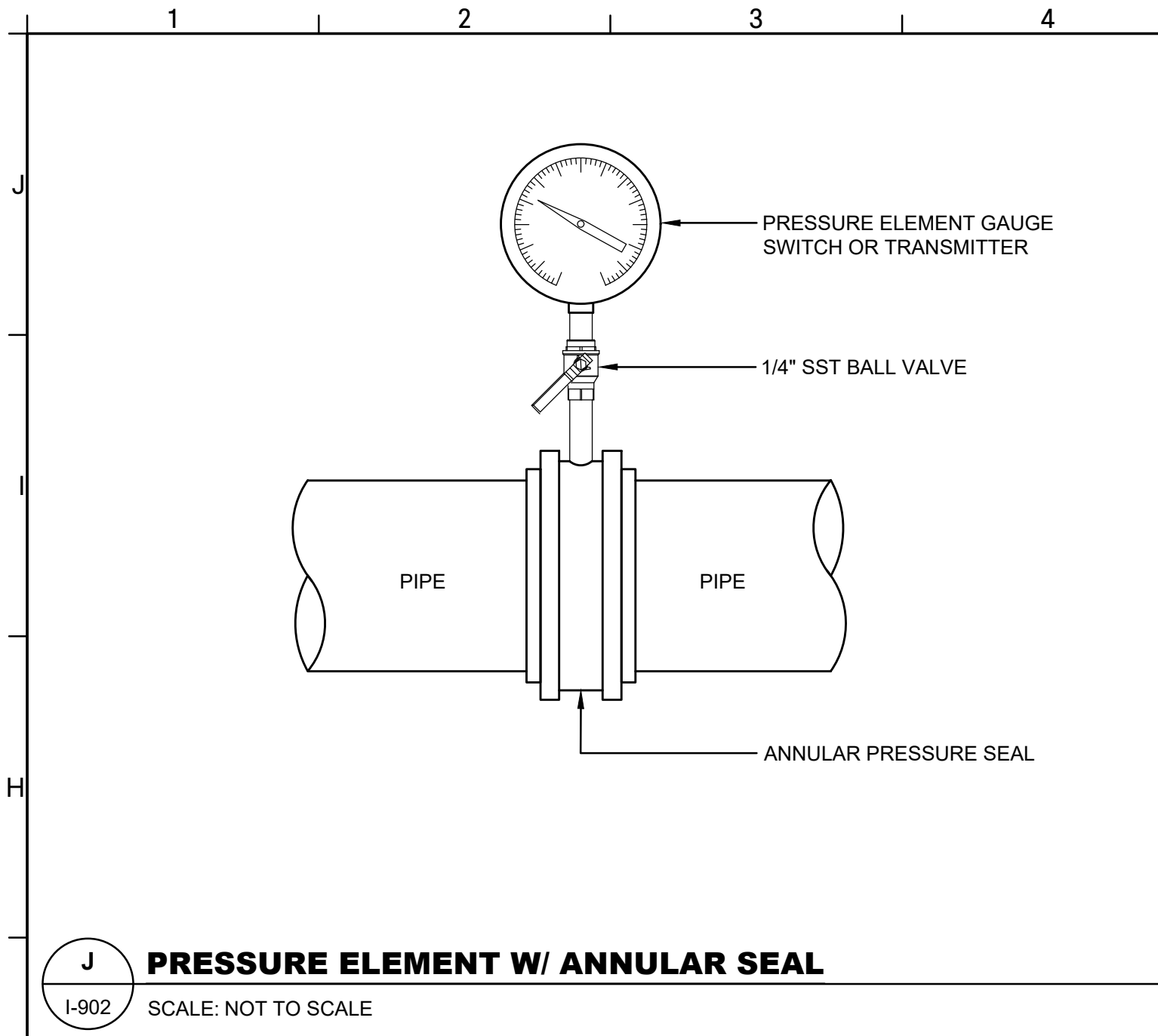
CATL230033



**INSTRUMENTATION
DETAILS**

I-901

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PLOTTED: Mar 18, 2025 - 11:37am



COMMERCE 2.0 MGD
GROVE CREEK WPCP
COMMERCE, GA



**INSTRUMENTATION
DETAILS**

I-902

CATL230033

ISSUE	DATE
30% Submittal	05.30.2024
60% Submittal	08.29.2024
90% Submittal	11.27.2024
Bid Set	03.19.2025

Project Manager:	CW
Engineer:	GS
Designer:	GS
Drawn By:	



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PLOTTED: Mar 18, 2025 - 7:28pm

INSTRUMENTATION SCHEDULE											
1000	LE/LIT1010	Influent Pump Station Wetwell Water Level	Submersible Level Transmitter	Analog	0-30 ft	Equipment Vendor	I-101	120 VAC	RWW	40 72 43	
	LSL1010	Influent Pump Station Low Water Level	Level Switch	Digital	-	Equipment Vendor	I-101	120 VAC	RWW	40 72 76	
	LSH1010	Influent Pump Station High Water Level	Level Switch	Digital	-	Equipment Vendor	I-101	120 VAC	RWW	40 72 76	
	PI1010	Influent Pump No.1 Discharge Pressure	Pressure Gage	-	0-100 psig	Contractor	I-101	-	RWW	40 73 13	Annular Seal
	MS1010	Influent Pump No.1 Seal Failure	Moisture Switch	-		Equipment Vendor	I-101	-	RWW	43 25 13	
	TSH1010	Influent Pump No.1 Overheat	Temperature Switch	-		Equipment Vendor	I-101	-	RWW	43 25 13	
	PI1020	Influent Pump No.2 Discharge Pressure	Pressure Gage	-	0-100 psig	Contractor	I-101	-	RWW	40 73 13	Annular Seal
	MS1020	Influent Pump No.2 Seal Failure	Moisture Switch	-		Equipment Vendor	I-101	-	RWW	43 25 13	
	TSH1020	Influent Pump No.2 Overheat	Temperature Switch	-		Equipment Vendor	I-101	-	RWW	43 25 13	
	PI1030	Influent Pump No.3 Discharge Pressure	Pressure Gage	-	0-100 psig	Contractor	I-101	-	RWW	40 73 13	Annular Seal
	MS1030	Influent Pump No.3 Seal Failure	Moisture Switch	-		Equipment Vendor	I-101	-	RWW	43 25 13	
	TSH1030	Influent Pump No.3 Overheat	Temperature Switch	-		Equipment Vendor	I-101	-	RWW	43 25 13	
	FE/FIT1040	Plant Influent Flow	Magnetic Flow Meter	Analog	0-10.6 MGD	Contractor	I-101	-	RWW	40 71 13	
	PI1110	Rotary Drum Screen No.1 Spray Water Pressure	Pressure Gage	-	0-100 psig	Equipment Vendor	I-102	-	RUW	40 73 13	
	AE1110	Rotary Drum Screen No.1 Overflow	Conductivity Probe	Digital	-	Equipment Vendor	I-102	-	RWW	46 21 15	
	PI1111	Washing Compactor Washwater Pressure	Pressure Gage	-	0-100 psig	Equipment Vendor	I-102	-	RUW	40 73 13	
	PI1120	Rotary Drum Screen No.2 Spray Water Pressure	Pressure Gage	-	0-100 psig	Equipment Vendor	I-102	-	RUW	40 73 13	
	AE1120	Rotary Drum Screen No.2 Overflow	Conductivity Probe	Digital	-	Equipment Vendor	I-102	-	RWW	46 21 15	
2000	PI1210	Grit Fluidization Water Pressure	Pressure Gage	-	0-100 psig	Equipment Vendor	I-103	-	RUW	40 73 13	
	PI1211	Grit Pump No.1 Discharge Pressure	Pressure Gage	-	0-30 psig	Equipment Vendor	I-103	-	GR	40 73 13	
	LSL2100	EQ Basin Low Water Level	Level Switch	Digital	-	Contractor	I-211	120 VAC	RWW	40 72 76	
3000	LSH2100	EQ Basin High Water Level	Level Switch	Digital	-	Contractor	I-211	120 VAC	RWW	40 72 76	
	FE/FIT2201	EQ Basin Discharge Flow	Magnetic Flow Meter	Analog	0-8.86 MGD	Contractor	I-221		RWW	40 71 13	
	AE3101A	Aeration Basin Outer Channel ORP Level	Analytic Instrument	Analog		Equipment Vendor	I-301		ML	46 51 15	
4000	AE3101B	Aeration Basin Inner Channel DO Level	Analytic Instrument	Analog		Equipment Vendor	I-301		ML	46 51 15	
	AIT3101	Aeration Basin ORP/DO Transmitter	Analytic Instrument	Analog		Equipment Vendor	I-301		ML	46 51 15	
	AE/AIT4010	Clarifier No. 1 Sludge Blanket Depth	DOB Meter	Analog	Vender Recommended	Contractor	I-401	120 VAC	ML	40 75 76	
	AE/AIT4020	Clarifier No. 2 Sludge Blanket Depth	DOB Meter	Analog	Vender Recommended	Contractor	I-401	120 VAC	ML	40 75 76	
	FE3210	Clarifier No. 1 Mixed Liquor Discharge Flow	Magnetic Flow Meter	Analog	0-2 MGD	Contractor	I-401	120 VAC	ML	40 71 13	
	FE3220	Clarifier No. 2 Mixed Liquor Discharge Flow	Magnetic Flow Meter	Analog	0-2 MGD	Contractor	I-401	120 VAC	ML	40 71 13	
	PI4310	RAS Pump No.1 Discharge Pressure	Pressure Gage	-	0-100 psig	Contractor	I-402	-	RWW	40 73 13	Annular Seal
	MS4310	RAS Pump No.1 Seal Failure	Moisture Switch	-		Equipment Vendor	I-402	-	RWW	43 25 13	
	TSH4310	RAS Pump No.1 Overheat	Temperature Switch	-		Equipment Vendor	I-402	-	RWW	43 25 13	
	LE/LIT4310	RAS/WAS Pump Station Wetwell Water Level	Submersible Level Transmitter	Analog	0-30 ft	Equipment Vendor	I-101	120 VAC	RWW	40 72 43	
	LSL4310	RAS/WAS Pump Station Wetwell Low Water Level	Level Switch	Digital	-	Equipment Vendor	I-101	120 VAC	RWW	40 72 76	
	LSH4310	RAS/WAS Pump Station Wetwell High Water Level	Level Switch	Digital	-	Equipment Vendor	I-101	120 VAC	RWW	40 72 76	
	PI4320	RAS Pump No.2 Discharge Pressure	Pressure Gage	-	0-100 psig	Contractor	I-402	-	RWW	40 73 13	Annular Seal
	MS4320	RAS Pump No.2 Seal Failure	Moisture Switch	-		Equipment Vendor	I-402	-	RWW	43 25 13	
	TSH4320	RAS Pump No.2 Overheat	Temperature Switch	-		Equipment Vendor	I-402	-	RWW	43 25 13	
	PI4330	WAS Pump No.1 Discharge Pressure	Pressure Gage	-	0-100 psig	Contractor	I-402	-	RWW	40 73 13	Annular Seal
	MS4330	WAS Pump No.1 Seal Failure	Moisture Switch	-		Equipment Vendor	I-402	-	RWW	43 25 13	
	TSH4330	WAS Pump No.1 Overheat	Temperature Switch	-		Equipment Vendor	I-402	-	RWW	43 25 13	
	PI4340	WAS Pump No.2 Discharge Pressure	Pressure Gage	-	0-100 psig	Contractor	I-402	-	RWW	40 73 13	Annular Seal
	MS4340	WAS Pump No.2 Seal Failure	Moisture Switch	-		Equipment Vendor	I-402	-	RWW	43 25 13	
	TSH4340	WAS Pump No.2 Overheat	Temperature Switch	-		Equipment Vendor	I-402	-	RWW	43 25 13	
	FE/FIT4340	RAS Flow	Magnetic Flow Meter	Analog	0-5 MGD	Contractor	I-402		RWW	40 71 13	
	FE/FIT4350	WAS Flow	Magnetic Flow Meter	Analog	0-5 MGD	Contractor	I-402		RWW	40 71 13	

INSTRUMENTATION
SCHEDULE

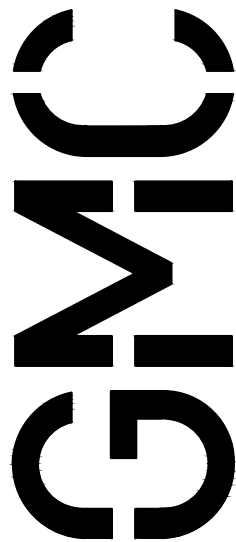
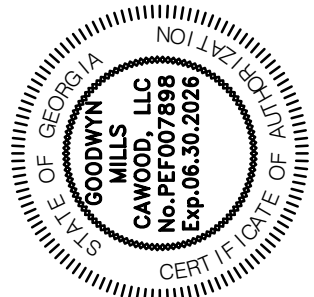
I-911

COMMERCE 2.0 MGD
GROVE CREEK WPCP
COMMERCE, GA



CATL230033

ISSUE	DATE
30% Submittal	05.30.2024
60% Submittal	08.29.2024
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Bid Set	03.19.2025
Project Manager:	CW
Engineer:	GS
Designer:	GS
Drawn By:	



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PLOTTED: Mar 19, 2025 - 7:27pm

INSTRUMENTATION SCHEDULE											
5000	LSHH5100	Filter No.1 High High Water Level	Level Switch	Digital		Equipment Vendor	I-501	120 VAC	SE	46 61 23	
	LE/LIT5100	Filter No.1 Water Level	Submersible Level Transmitter	Analog	0-5 psig	Equipment Vendor	I-501	120 VAC	SE	46 61 23	
	VIS110	Backwash Pump No.1 Inlet Vacuum	Vacuum Gauge	-	-14.5 to 14.5 psi	Equipment Vendor	I-501		BWW	46 61 23	
	VITS110	Backwash Pump No.1 Inlet Vacuum	Vacuum Transmitter	Analog	-14.5 to 14.5 psi	Equipment Vendor	I-501	120 VAC	BWW	46 61 23	
	PI5110	Backwash Pump No.1 Discharge Pressure	Pressure Gauge	-		Equipment Vendor	I-501		BWW	46 61 23	
	VI5120	Backwash Pump No.2 Inlet Vacuum	Vacuum Gauge	-	-14.5 to 14.5 psi	Equipment Vendor	I-501		BWW	46 61 23	
	VITS120	Backwash Pump No.2 Inlet Vacuum	Vacuum Transmitter	Analog	-14.5 to 14.5 psi	Equipment Vendor	I-501	120 VAC	BWW	46 61 23	
	PI5120	Backwash Pump No.2 Discharge Pressure	Pressure Gauge	-		Equipment Vendor	I-501		BWW	46 61 23	
	LSHH5200	Filter No.2 High High Water Level	Level Switch	Digital		Equipment Vendor	I-501		SE	46 61 23	
	LE/LIT5200	Filter No.2 Water Level	Submersible Level Transmitter	Analog	0-5 psig	Equipment Vendor	I-501		SE	46 61 23	
	VI5210	Backwash Pump No.3 Inlet Vacuum	Vacuum Gauge	-	-14.5 to 14.5 psi	Equipment Vendor	I-501		BWW	46 61 23	
	VITS210	Backwash Pump No.3 Inlet Vacuum	Vacuum Transmitter	Analog	-14.5 to 14.5 psi	Equipment Vendor	I-501	120 VAC	BWW	46 61 23	
	PI5210	Backwash Pump No.3 Discharge Pressure	Pressure Gauge	-		Equipment Vendor	I-501		BWW	46 61 23	
	VI5220	Backwash Pump No.4 Inlet Vacuum	Vacuum Gauge	-	-14.5 to 14.5 psi	Equipment Vendor	I-501		BWW	46 61 23	
	VITS220	Backwash Pump No.4 Inlet Vacuum	Vacuum Transmitter	Analog	-14.5 to 14.5 psi	Equipment Vendor	I-501	120 VAC	BWW	46 61 23	
6000	PI5220	Backwash Pump No.4 Discharge Pressure	Pressure Gauge	-		Equipment Vendor	I-501		BWW	46 61 23	
	LE/LIT6010	UV Disinfection No.1 Inlet Water Level	Radar Level Sensor	Analog	0-5 ft	Equipment Vendor	I-601	120 VAC	FE	46 66 16	
	EIT6011	UV Disinfection No. 1 Bank No. 1 UV Intensity	UV Intensity Sensor	Analog	-	Equipment Vendor	I-601	120 VAC	FE	46 66 16	
	EIT6012	UV Disinfection No. 1 Bank No. 2 UV Intensity	UV Intensity Sensor	Analog	-	Equipment Vendor	I-601	120 VAC	FE	46 66 16	
	LE/LIT6013	UV Disinfection No.2 Inlet Water Level	Radar Level Sensor	Analog	0-5 ft	Equipment Vendor	I-601	120 VAC	FE	46 66 16	
	EIT6014	UV Disinfection No. 2 Bank No. 1 UV Intensity	UV Intensity Sensor	Analog	-	Equipment Vendor	I-601	120 VAC	FE	46 66 16	
	EIT6015	UV Disinfection No. 2 Bank No. 2 UV Intensity	UV Intensity Sensor	Analog	-	Equipment Vendor	I-601	120 VAC	FE	46 66 16	
	LS6027	Reuse Basin Water Low Low Level Switch	Float Level Switch	Digital		Equipment Vendor	I-602	120 VAC	RUW	43 23 13	
	LE/LIT6028	Reuse Basin Water Level	Submersible Level Transmitter	Analog	0-30 ft	Equipment Vendor	I-602	120 VAC	RUW	43 23 13	
	PI6029	Reuse Pump No.1 Discharge Pressure	Pressure Gage	-	0-100 psig	Equipment Vendor	I-602	-	RUW	43 23 13	Annular Seal
	PI6030	Reuse Pump No.2 Discharge Pressure	Pressure Gage	-	0-100 psig	Equipment Vendor	I-602	-	RUW	43 23 13	Annular Seal
	PI6031	Reuse Water Line Pressure	Pressure Gage	-	0-100 psig	Equipment Vendor	I-602	-	RUW	43 23 13	Annular Seal
	FE/FIT6032	Reuse Water Flow Meter	Magnetic Flow Meter	Analog	0-400 gpm	Equipment Vendor	I-602		RUW	43 23 13	
	FE6100	Effluent Flow Measurement	Parshall Flume	N/A	0-15.87 MGD	Contractor	I-602	N/A	FNE	40 71 69	Throat Size: 18 inch
	LE/FIT6100	Parshall Flume Level/Effluent Flow	Ultrasonic Level Transmitter	Analog	0-15.87 MGD	Contractor	I-602	120 VAC	FNE	40 72 13	
7000	LE/LIT7010	Aerobic Digester No. 1 Water Level	Submersible Level Transmitter	Analog	0-25 ft	Contractor	I-701	120 VAC	WAS	40 72 43	
	LSH7010	Aerobic Digester No. 1 High Water Level	Level Switch	Digital	-	Contractor	I-701	120 VAC	WAS	40 72 76	
	AE/AIT7010	Aerobic Digester No. 1 Dissolved Oxygen Level	Dissolved Oxygen Probe	Analog	0-20 mg/L	Contractor	I-701	120 VAC	WAS	40 75 43	
	LE/LIT7020	Aerobic Digester No. 2 Water Level	Submersible Level Transmitter	Analog	0-25 ft	Contractor	I-701	120 VAC	WAS	40 72 43	
	LSH7020	Aerobic Digester No. 2 High Water Level	Level Switch	Digital	-	Contractor	I-701	120 VAC	WAS	40 72 76	
	AE/AIT7020	Aerobic Digester No. 2 Dissolved Oxygen Level	Dissolved Oxygen Probe	Analog	0-20 mg/L	Contractor	I-701	120 VAC	WAS	40 75 43	
	TI/TAH7110	Digester Blower No.1 Discharge High Temperature	Temperature Sensor	Digital	Vender Recommended	Equipment Vendor	I-702		A	43 53 54	
	PI7110	Digester Blower No.1 Discharge Pressure	Pressure Gauge	-		Equipment Vendor	I-702		A	43 53 54	
	PSH7110	Digester Blower No.1 High Pressure Cutout	Pressure Switch	Digital	Vender Recommended	Equipment Vendor	I-702		A	43 53 54	
	TI/TAH7120	Digester Blower No.2 Discharge High Temperature	Temperature Sensor	Digital	Vender Recommended	Equipment Vendor	I-702		A	43 53 54	
	PI7120	Digester Blower No.2 Discharge Pressure	Pressure Gauge	-		Equipment Vendor	I-702		A	43 53 54	
	PSH7120	Digester Blower No.2 High Pressure Cutout	Pressure Switch	Digital	Vender Recommended	Equipment Vendor	I-702		A	43 53 54	
	FE/FIT7220	Sludge Feed Pump Discharge Flow	Magnetic Flow Meter	Analog	0-300 gpm	Equipment Vendor	I-711	120 VAC	DS	46 76 21	
	LE/LIT8000	Yard Drain Pump Station Wetwell Water Level	Submersible Level Transmitter	Analog	0-30 ft	Equipment Vendor	I-801	120 VAC	D	40 72 43	
	LSL8000	Yard Drain Pump Station Low Water Level	Level Switch	Digital	-	Equipment Vendor	I-801	120 VAC	D	40 72 76	
8000	LSH8000	Yard Drain Pump Station High Water Level	Level Switch	Digital	-	Equipment Vendor	I-801	120 VAC	D	40 72 76	
	PI8010	Yard Drain Pump No.1 Discharge Pressure	Pressure Gage	-	0-100 psig	Contractor	I-801	-	PD	40 73 13	Annular Seal
	PI8020	Yard Drain Pump No.2 Discharge Pressure	Pressure Gage	-	0-100 psig	Contractor	I-801	-	PD	40 73 13	Annular Seal
	FE/FIT8030	Yard Drain Discharge Flow	Magnetic Flow Meter	Analog	0-3200 gpm	Contractor	I-801		PD	40 71 13	
	LE/LIT8100	Caustic Bulk Tank Water Level	Ultrasonic Level Transmitter	Analog	0-15 ft	Contractor	I-802	120 VAC	NaOH	40 72 13	
	MS8110	Caustic Feed Pump No. 1 Tubing Rupture	Moisture Sensor	Analog		Equipment Vendor	I-802	120 VAC	HOCL	46 33 41	
	PI8115	Caustic Feed Pump No. 1 Discharge Pressure	Pressure Gauge	N/A	0-100 psig	Equipment Vendor	I-802	N/A	HOCL	40 73 13	
	MS8120	Caustic Feed Pump No. 2 Tubing Rupture	Moisture Sensor	Analog		Equipment Vendor	I-802	120 VAC	HOCL	46 33 41	
	PI8125	Caustic Feed Pump No. 2 Discharge Pressure	Pressure Gauge	N/A	0-100 psig	Equipment Vendor	I-802	N/A	HOCL	40 73 13	
	LE/LIT8200	PACL Bulk Tank Water Level	Ultrasonic Level Transmitter	Analog	0-15 ft	Contractor	I-803	120 VAC	NaOH	40 72 13	
	MS8210	PACL Feed Pump No. 1 Tubing Rupture	Moisture Sensor	Analog		Equipment Vendor	I-803	120 VAC	HOCL	46 33 41	
	PI8215	PACL Feed Pump No. 1 Discharge Pressure	Pressure Gauge	N/A	0-100 psig	Equipment Vendor	I-803	N/A	HOCL	40 73 13	
	MS8220	PACL Feed Pump No. 2 Tubing Rupture	Moisture Sensor	Analog		Equipment Vendor	I-803	120 VAC	HOCL	46 33 41	
	PI8225	PACL Feed Pump No. 2 Discharge Pressure	Pressure Gauge	N/A	0-100 psig	Equipment Vendor	I-803	N/A	HOCL	40 73 13	
	WE/WIT8300	Polymer Tote Weight	Weight Indicator/Transmitter	Analog		Contractor	I-804	120 VAC	POL	41 15 13	

INSTRUMENTATION
SCHEDULE

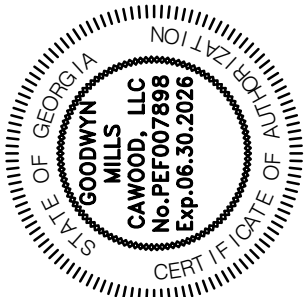
COMMERCE 2.0 MGD
BROVE CREEK WPCP
COMMERCE, GA



I-912

CATL230033

ISSUE	DATE	
30% Submittal	05.30.2024	
60% Submittal	08.29.2024	
90% Submittal	11.27.2024	
Bid Set	03.19.2025	
Project Manager:	CW	
Engineer:	GS	
Designer:	GS	
Drawn By:		



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