



RENEWABLE NATURAL GAS PROJECT

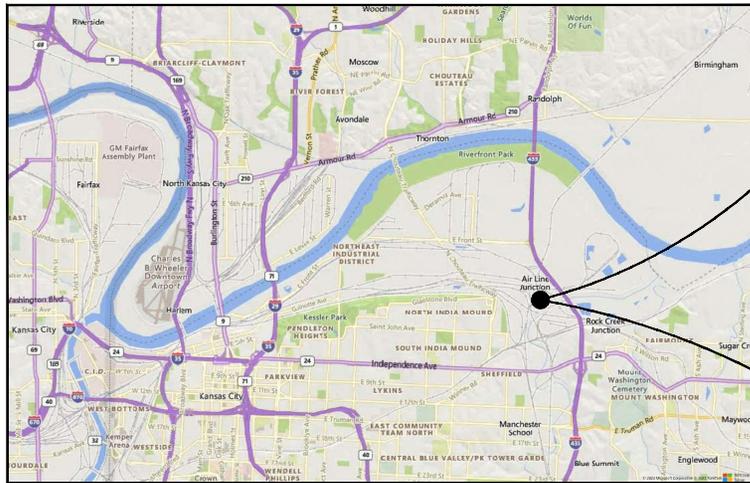
KC WATER BLUE RIVER WWTP

7300 HAWTHORNE RD.
CONTRACT NO. 81000992 PROJECT NO. 1663

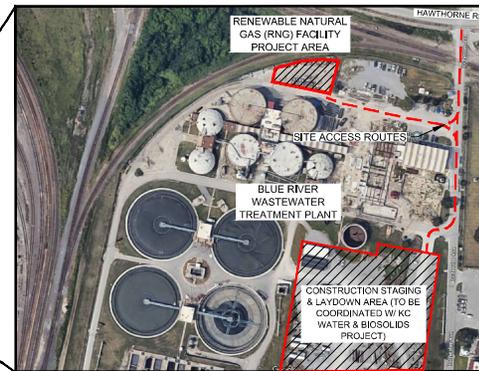


KCWATER
SERVICES

ENGINEERING
4800 E. 63RD STREET
KANSAS CITY, MISSOURI 64130



VICINITY MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE

NO.	DATE	DRAWN BY	CHECKED BY	DESCRIPTION
1	01-02-25	SAR	DEG	PRELIMINARY DESIGN - NOT FOR CONSTRUCTION

REVISION BLOCK		DESCRIPTION	
KANSAS CITY - MISSOURI - WATER SERVICES DEPARTMENT		RENEWABLE NATURAL GAS PROJECT	
KC WATER BLUE RIVER WWTP		7300 HAWTHORNE RD., KANSAS CITY, MO 64120	
COVER SHEET			

DESIGNED BY	CHECKED BY	DATE SUBMITTED	RANGE	TOWNSHIP	SECTION
S. RUSSELL	B. GALLAGHER	03/10/23	-	-	-

CONTRACT NO.	CONTRACT DATE	IMPV. NO.	WORK ORDER NO.	DRAWING NO.
-	-	-	-	G001

PROJECT NO.	SHEET	OF
145569		



9400 WARD PARKWAY
KANSAS CITY, MO 64114
Burns & McDonnell Engineering Co., Inc.
616-333-9400
Licensee No. 000165

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1 - 800 - 344 - 7483
1 - 800 - (DIG-RITE)
(811)

GENERAL DRAWINGS:

DRAWING NO.	DRAWING TITLE
G001	COVER SHEET
G002	LIST OF DRAWINGS

CIVIL DRAWINGS:

DRAWING NO.	DRAWING TITLE
C000	GENERAL NOTES AND LEGEND
C001	OVERALL CIVIL SITE PLAN

ARCHITECTURAL DRAWINGS:

DRAWING NO.	DRAWING TITLE
A001	ELECTRICAL BUILDING FLOOR PLAN AND CODE INFORMATION
A002	ELECTRICAL BUILDING ELEVATIONS
A003	ELECTRICAL BUILDING SECTIONS
A004	ELECTRICAL BUILDING ROOF PLAN

STRUCTURAL DRAWINGS:

DRAWING NO.	DRAWING TITLE
S001	OVERALL FOUNDATION LOCATION PLAN
S002	ENLARGED FOUNDATION LOCATION PLAN

PROCESS DRAWINGS:

DRAWING NO.	DRAWING TITLE
MM001	P & ID - SYMBOLS AND NOMENCLATURE
MM002	P & ID - SYMBOLS AND NOMENCLATURE
MM003	P & ID - EQUIPMENT SYMBOLS
MM101	PFD - BIOGAS UPGRADING
MM102	PFD - METER AND REGULATING

P&ID DRAWINGS:

DRAWING NO.	DRAWING TITLE
MM201	P & ID - BIOGAS UPGRADE H2S REMOVAL
MM202	P & ID - BIOGAS BLOWERS
MM203	P & ID - BIOGAS UPGRADE H2S POLISHING
MM204	P & ID - BIOGAS FEED COMPRESSOR SKID
MM205	P & ID - BIOGAS UPGRADE CHILLER AND GAS ANALYZER SYSTEM
MM206	P & ID - BIOGAS UPGRADE PSA SYSTEM
MM207	P & ID - BIOGAS UPGRADE PRODUCT COMPRESSOR
MM208	P & ID - BIOGAS UPGRADE CONDENSATE SYSTEM
MM209	P & ID - BIOGAS UPGRADE FLARE
MM210	P & ID - INSTRUMENT AIR
MM211	P & ID - RNG COALESCING FILTER
MM212	P & ID - METER SKID
MM213	P & ID - CONDENSATE DRAIN TANK

ELECTRICAL DRAWINGS:

DRAWING NO.	DRAWING TITLE
E001	ELECTRICAL SITE PLAN
E002	ONE-LINE DIAGRAM
E003	ELECTRICAL BUILDING LAYOUT
E004	NETWORK ARCHITECTURE DIAGRAM

MECHANICAL DRAWINGS:

DRAWING NO.	DRAWING TITLE
MSP001	OVERALL PLOT PLAN
MSP002	PLOT PLAN



**BURNS
& MCDONNELL**
 9400 WARD PARKWAY
 KANSAS CITY, MO 64114
 816-333-9400
 Licensee No. 000185

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NO.	DATE	DRAWN BY	CHECKED BY	ISSUE	DESCRIPTION
	01-02-25	SAR	DDG		PRELIMINARY DESIGN-NOT FOR CONSTRUCTION
KANSAS CITY- MISSOURI WATER SERVICES DEPARTMENT					
BIOGAS USE APPLICATIONS PROJECT					
KC WATER BLUE RIVER WWTP					
7300 HAWTHORNE RD., KANSAS CITY, MO 64120					
LIST OF DRAWINGS					
FOR WEB USE					
DESIGN BY	CHECKED BY	DATE SUBMITTED	RANGE	TOWNSHIP	SECTION
S. RUSSELL	B. GALLAGHER	03/10/23	-	-	-
CONTRACTOR					
DATE COMPLETED					
CONTRACT NO.	CONTRACT DATE	ISSUES	WORK ORDER NO.	DRAWING NO.	
-	-	-	-	G002	
PROJECT NO.				SHEET	OF
145569					

Sheet 05-12-2023 1:08:38 PM by 04805261
 Plot Date: 2/27/2023 10:30:47 PM by 04805261
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GENERAL NOTES:

- THE PROJECT SITE IS LOCATED AT THE BLUE RIVER WASTE WATER TREATMENT PLANT IN KANSAS CITY, MISSOURI.
- SPiRE (OWNER), BURNS & MCDONNELL ENGINEERING COMPANY, INC. (CONTRACTOR), AND KC WATER (PROPERTY OWNER) SHALL BE LISTED AS ADDITIONAL INSURED BY THE SUBCONTRACTOR, SUBMIT CERTIFICATE TO CONTRACTOR AND OWNER FOR REVIEW AND APPROVAL UPON AWARD.
- THESE DRAWINGS REPRESENT THE FINISHED WORK, SUBJECT TO APPROVAL BY CONTRACTOR, SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS AND METHODS OF CONSTRUCTION, SUBCONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT, MATERIALS, AND TOOLS NECESSARY TO COMPLETELY PERFORM THE WORK IN SAFE, EXPEDITIOUS, AND WORKMAN LIKE MANNER, COORDINATE SCHEDULE OF THE WORK WITH THE CONTRACTOR AND OWNER, SUBCONTRACTOR SHALL INSTALL EQUIPMENT AND MATERIALS PER MANUFACTURERS RECOMMENDATIONS UNLESS NOTED OTHERWISE, THE SUBCONTRACTOR ACCEPTS FULL RESPONSIBILITY FOR PROPER HANDLING AND INSTALLATION OF EQUIPMENT AND MATERIALS.
- SUBCONTRACTOR SHALL UNDERTAKE ALL NECESSARY MEASURES TO ENSURE SAFETY OF ALL PERSONS AND STRUCTURES AT THE SITE AND ADJACENT TO THE SITE. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ANY CLAIMS RESULTING FROM THEIR ACTIONS AND ACTIVITIES, VISITS TO THE SITE BY OWNER OR THE CONTRACTOR SHALL NOT RELIEVE THE SUBCONTRACTOR OF SUCH RESPONSIBILITY.
- SUBCONTRACTOR UNDERSTANDS THAT THE WORK IS TO BE PERFORMED AT A FACILITY THAT TREATS MUNICIPAL SEWAGE WASTEWATER, SUBCONTRACTOR SHALL BE RESPONSIBLE FOR COMMUNICATING THE NATURE OF THE WORK WITH ITS EMPLOYEES AND IMPLEMENTING ITS OWN SAFETY PROTOCOLS APPROPRIATE FOR SUCH WORK.
- SUBCONTRACTOR SHALL NOT DISTURB ADJACENT PROPERTIES THAT ARE NOT THE PROPERTY OF THE PROPERTY OWNER.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA STANDARDS.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
- THESE NOTES AND OTHER DRAWING NOTES CONTAINED HERewith ARE PROVIDED TO MEET SPECIFIC REQUIREMENTS AND TO SUPPLEMENT THE CONTRACT DOCUMENTS, THESE NOTES NEITHER REPLACE NOR OVERRIDE THE PROVISIONS AND REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- THESE DRAWINGS SHALL BE USED IN CONJUNCTION WITH ANY SHOP DRAWINGS PROVIDED BY SUPPLIERS. ALL SHOP DRAWINGS PROVIDED BY OTHERS SHALL BE SUBMITTED TO THE CONTRACTOR FOR REVIEW PRIOR TO THE FABRICATION OF MATERIAL OR THE PURCHASE OF NON-RETURNABLE STOCK, DIMENSIONAL REVIEW IS THE SUBCONTRACTOR'S RESPONSIBILITY.
- UNKNOWN SITUATIONS OR CONDITIONS NOT COVERED IN THE CONTRACT DOCUMENTS ARE THE RESPONSIBILITY OF THE SUBCONTRACTOR, ENGINEER AND MANUFACTURER'S SPECIALISTS MAY BE AVAILABLE FOR CONSULTATION, THE PRESENCE OF THE CONTRACTOR OR THE MANUFACTURER'S REPRESENTATIVE AT THE PROJECT SITE DOES NOT RELIEVE THE SUBCONTRACTOR OF THE RESPONSIBILITY FOR A PROPER INSTALLATION.
- ALL DIMENSIONS, ELEVATIONS, AND CONDITIONS SHALL BE VERIFIED IN THE FIELD BY THE SUBCONTRACTOR AND ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CLARIFICATION BEFORE PROCEEDING WITH THE AFFECTED PART OF WORK.
- IF CERTAIN FEATURES ARE NOT FULLY SHOWN OR CALLED FOR ON THE CONSTRUCTION DRAWINGS OR SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE SHOWN OR CALLED FOR, SUBJECT TO THE APPROVAL OF THE CONTRACTOR.
- SUBCONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES, WHETHER IDENTIFIED OR NOT ON THE DRAWINGS, THE SUBCONTRACTOR SHALL IDENTIFY, LOCATE, AND PROTECT ALL UNDERGROUND UTILITIES THAT MAY BE POTENTIALLY AFFECTED BY CONSTRUCTION ACTIVITIES, SUBCONTRACTOR SHALL CONTACT MISSOURI ONE-CALL (811) TO LOCATE UTILITIES PRIOR TO CONSTRUCTION ACTIVITIES, SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ANY CLAIMS, AND FOR REPAIRING ANY DAMAGE TO UTILITIES RESULTING FROM SUBCONTRACTOR'S WORK.
- ALL WORK SHALL BE DONE TO THE LINES, SLOPES, THICKNESS, AND GRADES INDICATED IN THESE DRAWINGS, ALL ESTABLISHED MONUMENTS, BENCHMARKS, REFERENCE POINTS, STAKES, AND OTHER CENTRAL POINTS SHALL BE CAREFULLY PRESERVED BY THE SUBCONTRACTOR, SUBCONTRACTOR SHALL NOTIFY CONTRACTOR IN WRITING OF BENCHMARKS, REFERENCE LINES, OR OTHER CONTROL POINTS WHICH MAY HAVE BEEN DISTURBED OR WHICH APPEAR TO BE OFF LINE OR GRADE.
- SUBCONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING POTABLE WATER AND TEMPORARY SANITARY FACILITIES FOR SUBCONTRACTOR'S PERSONNEL, IF REQUIRED AND IF APPROVED BY PROPERTY OWNER SUBCONTRACTOR SHALL ALSO BE RESPONSIBLE FOR INSTALLING AND REMOVING ANY TEMPORARY UTILITY CONNECTIONS.
- SUBCONTRACTOR IS RESPONSIBLE FOR THE REMOVAL, MANAGEMENT, STORAGE, LOADING, AND DISPOSAL OF CONSTRUCTION DEBRIS, SUBCONTRACTOR SHALL DISPOSE OF PER APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
- TESTING: TEST ALL PIPE AND EQUIPMENT AS SPECIFIED OR PER MANUFACTURER'S RECOMMENDATIONS IN THE PRESENCE OF THE CONTRACTOR.
- SUBCONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY IF CULTURAL RESOURCES ARE ENCOUNTERED DURING THE WORK. IN THE EVENT THAT CULTURAL RESOURCES ARE ENCOUNTERED, CONTRACTOR SHALL CEASE ALL CONSTRUCTION AT THAT LOCATION UNTIL REGULATORY AGENCIES ARE NOTIFIED BY THE PROPERTY OWNER AND A QUALIFIED ARCHEOLOGIST IS ABLE TO ASSESS THE SIGNIFICANCE OF THE FINDINGS.

LEGEND

EXISTING

- S---S--- EXISTING 10" SLUDGE LINE
- ==== EXISTING 72" EFFLUENT PIPE, AS INDICATED
- G----- RING PIPELINE OR GAS UTILITY SERVICE, AS INDICATED
- X---X--- EXISTING FENCE
- A---A--- PROPOSED UNDERGROUND ELECTRIC
- BG--- PROPOSED BIOGAS SUPPLY
- 742--- PROPOSED MINOR CONTOUR
- 742.5--- PROPOSED INTERMEDIATE CONTOUR
- ST---ST--- PROPOSED 12" HDPE STORM PIPE
- S--- RELOCATED 10" SLUDGE FORCEMAIN
- S--- APPROX. LIMITS OF CONSTRUCTION
- W--- PROPOSED WATER SUPPLY
- E---E--- UNDERGROUND ELECTRICAL (BY OTHERS)
- C---C--- CONDENSATE DRAINS



- PROPOSED AGGREGATE SURFACING
- M&R AREA (BY INTERCONNECT PROJECT)
- PROPOSED OR FUTURE CONCRETE, AS INDICATED

ABBREVIATIONS:

- APPROX APPROXIMATE
- ARCH ARCHITECTURAL
- ASTM AMERICAN SOCIETY FOR TESTING & MATERIALS
- BMP BEST MANAGEMENT PRACTICE
- CONC. CONCRETE
- CONT. CONTINUED
- CP CONTROL POINT
- CF CUBIC FEET
- DIA DIAMETER
- DND DO NOT DISTURB
- DWG DRAWING
- E EAST/EASTING
- EL ELEVATION
- ELEC. ELECTRICAL
- EX. EXISTING
- FT FOOT OR FEET
- HDPE HIGH DENSITY POLYETHYLENE
- IN INCH
- INC. INCORPORATED
- LB POUND
- LF LINEAR FEET
- N NORTH/NORTHING
- NA NOT APPLICABLE
- NAD NORTH AMERICAN DATUM
- NO. NUMBER
- NPT NATIONAL PIPE THREAD
- OD OUTSIDE DIAMETER
- OHE OVERHEAD ELECTRIC
- OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
- OZ OUNCE
- PSI POUNDS PER SQUARE INCH
- RNG RENEWABLE NATURAL GAS
- ROW RIGHT-OF-WAY
- STRUCT. STRUCTURAL
- TYP. TYPICAL

PRELIMINARY - NOT FOR CONSTRUCTION



BLUE RIVER WWTP

**RENEWABLE NATURAL GAS PROJECT
CIVIL
GENERAL NOTES AND LEGEND**



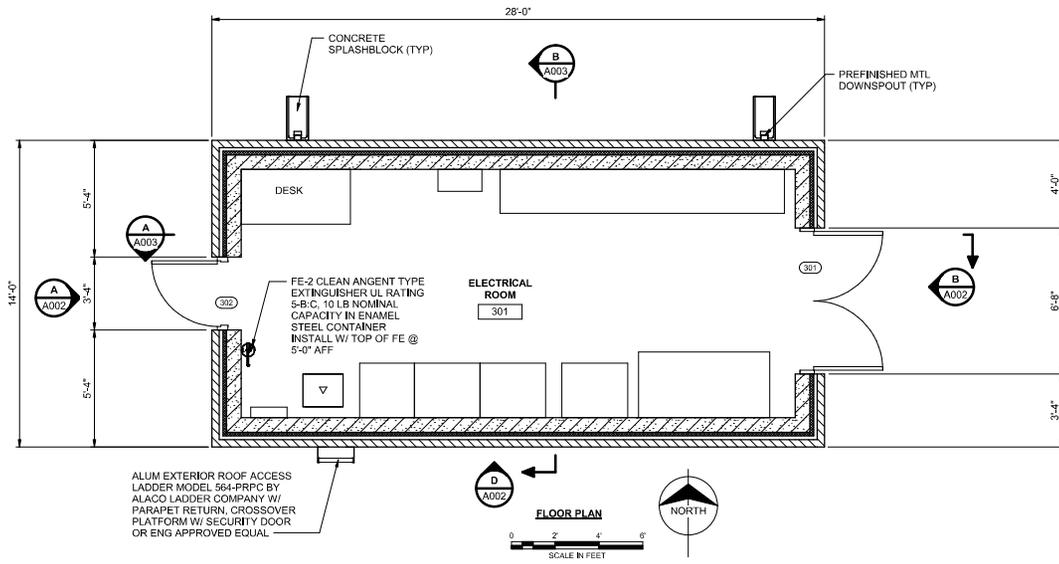
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 CHECKED B. GALLAGHER DATE 02/17/23
 DESIGNED C. SLAVIN DATE 02/17/23
 DESIGN APPROVAL _____ DATE _____
 ENGINEER APPROVAL _____ DATE _____

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DRAWING NUMBER	TITLE	REV.	PROJECT	DATE	DESCRIPTION	DRN	CHK	DES	ENG	APP	CO	REV.	PROJECT	DATE	DESCRIPTION	DRN	CHK	DES	ENG	APP	CO	
C001	OVERALL CIVIL PLOT PLAN																					
C002	LIST OF DRAWINGS																					
C001	COVER SHEET																					

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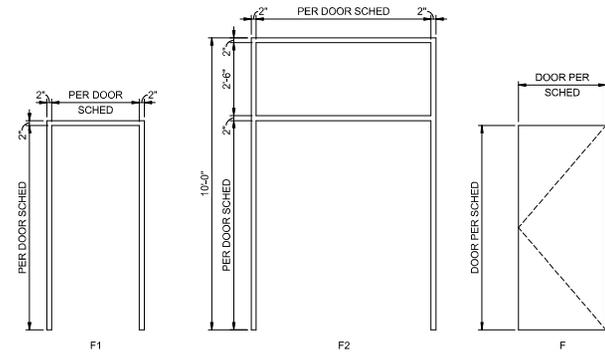


FIRE EXTINGUISHER NOTES:

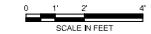
FE-2
 CLEAN AGENT TYPE EXTINGUISHER UL RATING 5-B-C, 10 LB
 NOMINAL CAPACITY IN ENAMEL STEEL CONTAINER INSTALL
 W/ TOP AT 5'-0" AFF.

GENERAL NOTES:

1. ALUM EXTERIOR ROOF ACCESS LADDER MODEL 564-PRPC BY ALACO LADDER COMPANY W/ PARAPET RETURN, CROSSOVER PLATFORM W/ SECURITY DOOR OR ENG APPROVED EQUAL.



DOOR AND FRAME TYPES



DOOR SCHEDULE												
DOOR NUMBER		DOOR			FRAME			DETAIL			REMARKS	
		SIZE	TYPE	MATERIAL	TYPE	MATERIAL	HEAD	JAMB	SILL	HARDWARE SET		
301	PR.	6'-4"	7'-2"	F	HM	F2	HM	1	1	1	2	
302		3'-0"	7'-2"	F	HM	F1	HM	1	1	1	1	

ROOM FINISH SCHEDULE										
ROOM NUMBER	ROOM NAME	FLOOR	BASE				WALLS		CEILING	REMARKS
			MATERIAL	NORTH	EAST	SOUTH	WEST			
301	ELECTRICAL ROOM	10	20	30	30	30	30	40		

ROOM FINISH LEGEND:

- FLOOR
- 10 - CONCRETE
- BASE
- 20 - NO BASE
- WALLS
- 30 - PAINTED CMU
- CEILING
- 40 - NO FINISH

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BLUE RIVER WWTP

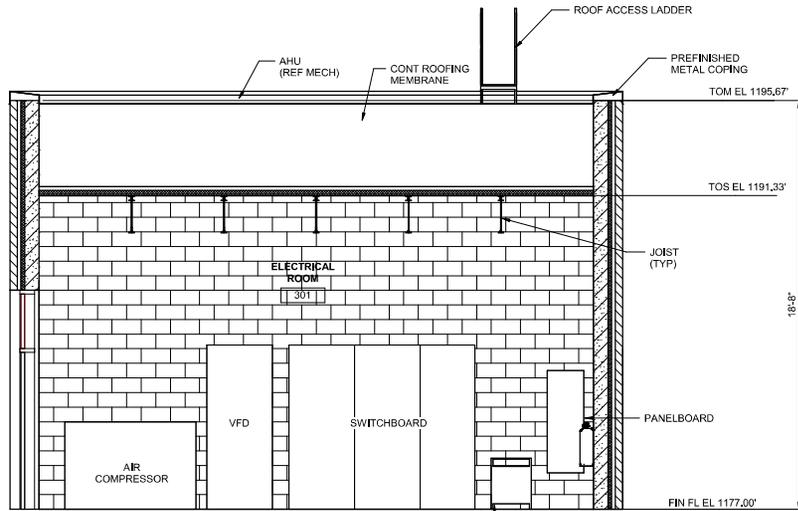
ELECTRICAL BUILDING FLOOR PLAN AND CODE INFORMATION



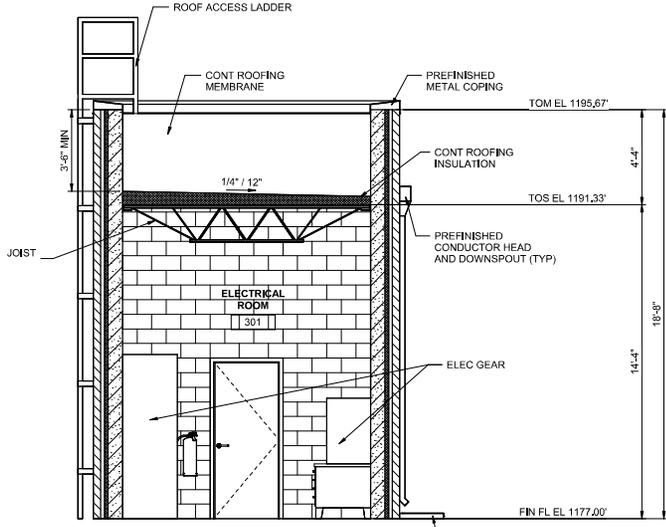
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CHECKED	R.LANG	DATE	2/17/23
DESIGNED	R.LANG	DATE	2/17/23
DESIGN APPROVAL		DATE	
ENGINEER APPROVAL		DATE	

DRAWING NUMBER	TITLE	REV.	PROJECT	DATE	DESCRIPTION	BY	CHKD	DES. (ENG. APPR.)	CO.	REV.	PROJECT	DATE	DESCRIPTION	EFF.	RD.	BP.	BY	CHKD	DES. (ENG. APPR.)	CO.	REV.	PROJECT	DATE	DESCRIPTION	FILE:	SCALE	project	145569	drawing	A001	rev.	A
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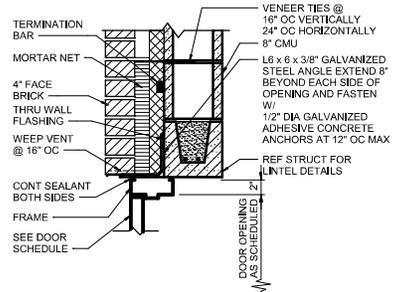
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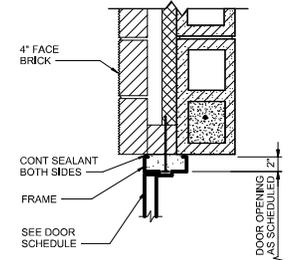
SECTION A
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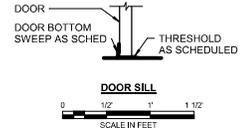
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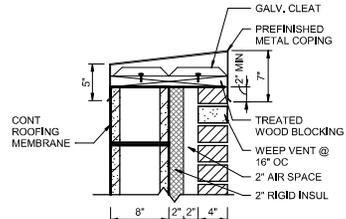
DOOR HEAD 1
SCALE IN FEET
0 1/2 1 1 1/2



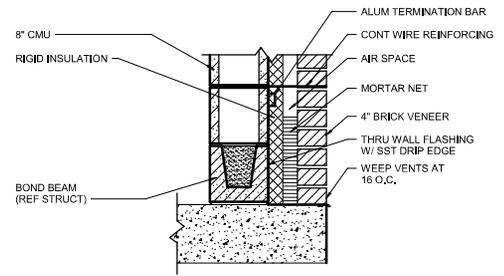
DOOR JAMB 1
SCALE IN FEET
0 1/2 1 1 1/2



DOOR SILL
SCALE IN FEET
0 1/2 1 1 1/2



COPING
SCALE IN FEET
0 1/2 1 1 1/2



BASE OF WALL
SCALE IN FEET
0 1/2 1 1 1/2

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BURNS & MCDONNELL

BLUE RIVER WWTP

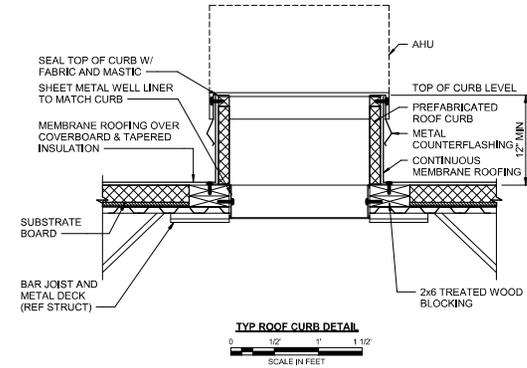
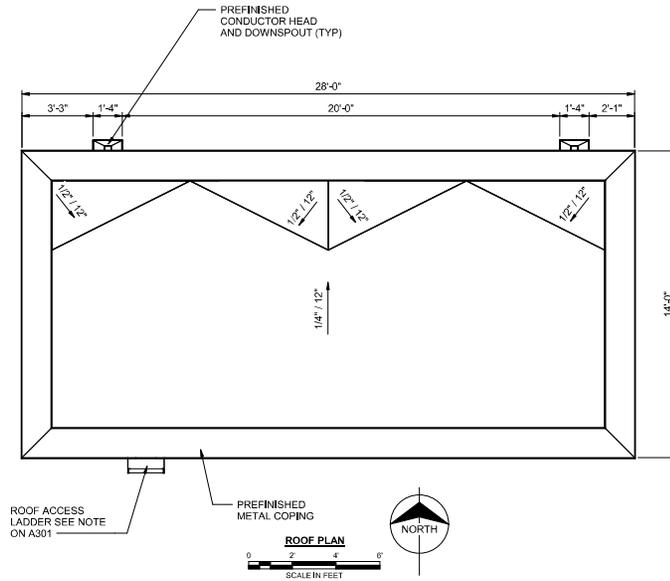
ELECTRICAL BUILDING SECTIONS



DESIGNED BY	CHKD BY	DATE	PROJECT	DESCRIPTION	APP. BY	DATE	SCALE	FILE	PROJECT	DRAWING	REV.
R. LANG	R. LANG	2/17/23	145569	PRELIMINARY DESIGN					145569	A003	A

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GENERAL NOTES:
 1. ALUM EXTERIOR ROOF ACCESS LADDER MODEL 564-PRPC BY ALACO LADDER COMPANY W/ PARAPET RETURN, CROSSOVER PLATFORM W/ SECURITY DOOR OR ENG APPROVED EQUAL.



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BLUE RIVER WWTP

ELECTRICAL BUILDING ROOF PLAN

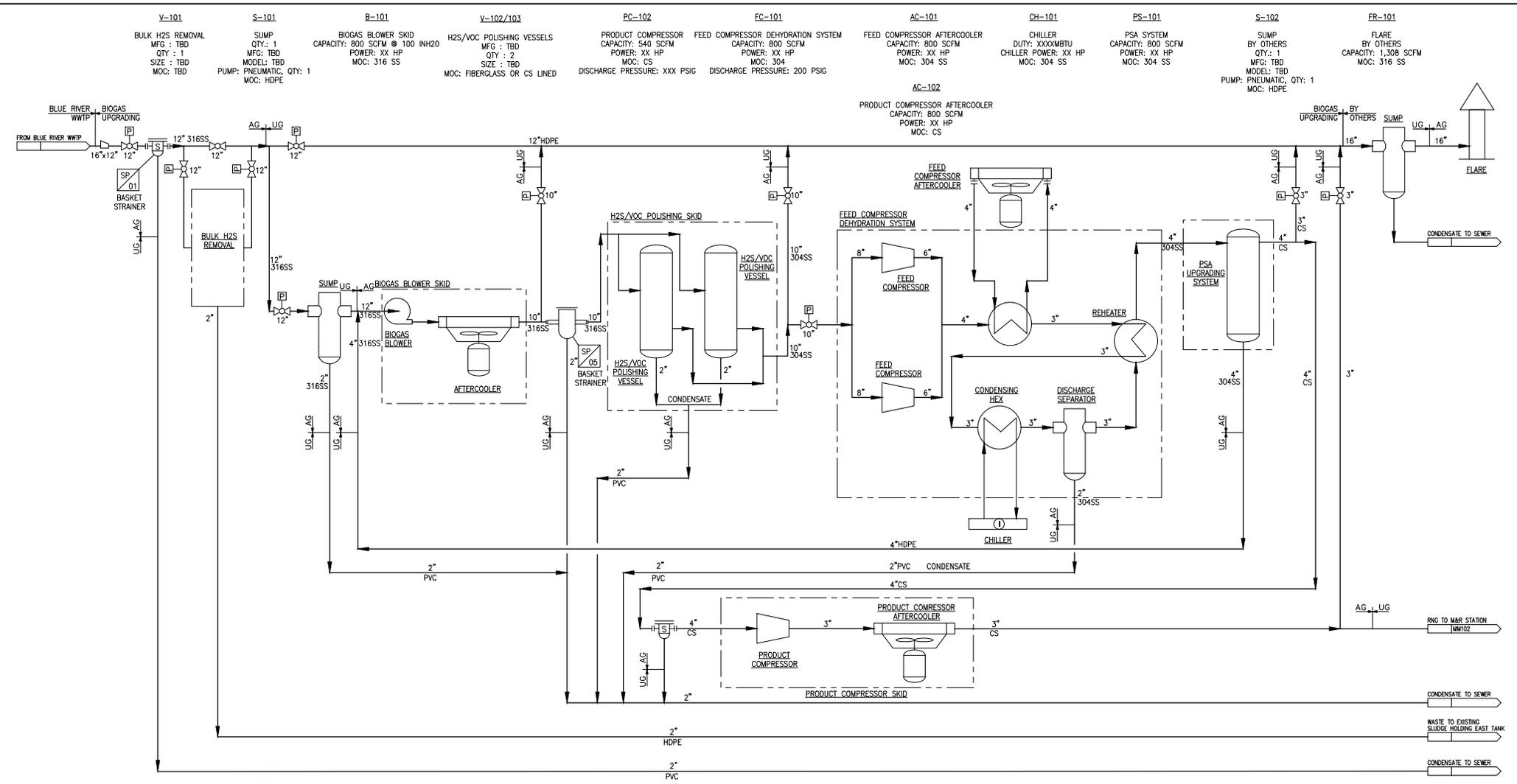
project 145569 drawing A004 rev. **A**



DRAWN	E.FIELDS	DATE	2/17/23
CHECKED	R.LANG	DATE	2/17/23
DESIGNED	R.LANG	DATE	2/17/23
DESIGN APPROVAL		DATE	
ENGINEER APPROVAL		DATE	

DRAWING NUMBER	TITLE	REV.	PROJECT	DATE	DESCRIPTION	BY	CHKD	DES. ENGR.	APP.	CO.	REV.	PROJECT	DATE	DESCRIPTION	BY	CHKD	DES. ENGR.	APP.	CO.

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DESIGN CONDITIONS:
 MIN OPERATING FLOW: 220 MSCFD
 MAX OPERATING FLOW: 1,152 MSCFD
 STATION DESIGN FLOW: 1,880 MSCFD
 MIN OPERATING PRESSURE: 10 IN. H2O
 MAX OPERATING PRESSURE: 200 PSIG
 STATION DESIGN PRESSURE: 200 PSIG
 DESIGN TEMP: -20°F TO 120°F

PRELIMINARY - NOT FOR CONSTRUCTION



BLUE RIVER WWTP

SPIRE KCMO BLUE RIVER PROJECT
 PROCESS FLOW DIAGRAM
 BIOGAS UPGRADING

NO.	REV.	DATE	DESCRIPTION	DRN/CK	DES/ENG/APP	CO	REV.	PROJECT #	DATE	DESCRIPTION	DRN/CK	DES/ENG/APP	CO
1			PRELIMINARY DESIGN										

DRAWN	M. MAHESWARAN	DATE	12/02/22
CHECKED	B. GALLAGHER	DATE	02/02/23
DESIGNED	C. SLAVIN	DATE	02/02/23
DESIGN APPROVAL		DATE	
ENGINEER APPROVAL		DATE	



FILE:	145569MM101.DWG	SCALE:	NONE	PROJECT #:	145569	DRAWING NO.:	MM101	REV:	A
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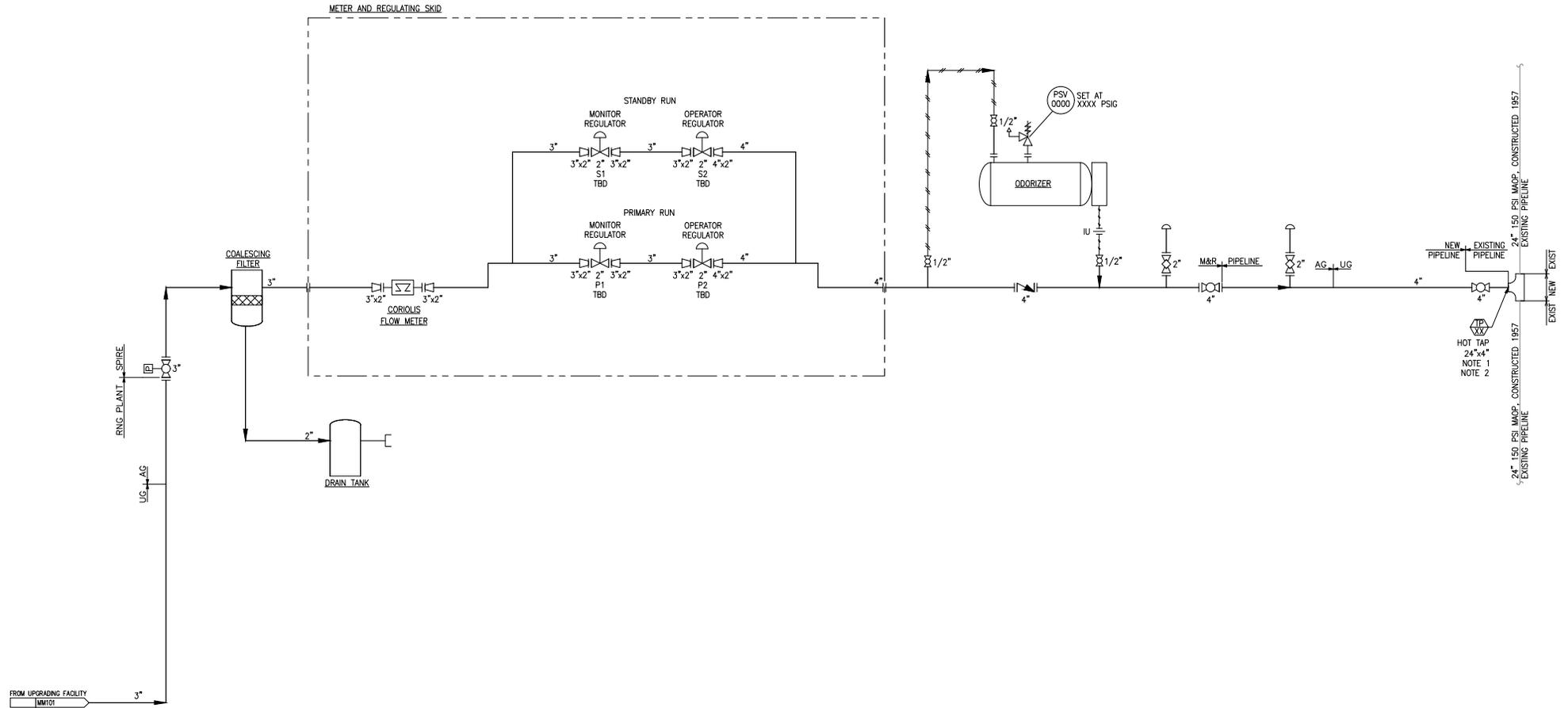
T-102
CONDENSATE DRAIN TANK
MFG: TBD
CAPACITY: TBD
MCC: TBD

FT-101
COALESCING FILTER
MFG: TBD
CAPACITY: 540 SCFM
MCC: A105 CS

FE-101
CORIOLIS FLOW METER
MFG: MICRO MOTION
SIZE: 2"
PRESSURE/TEMPERATURE: 180 - 200 PSIG @ 120°F
MAX FLOW RATE: 32.16 MSCFH
MIN FLOW RATE: 9.18 MSCFH

V-104
ODORIZER
MFG: YZ SYSTEMS
CAPACITY: 60 GAL

GENERAL NOTES:
1. TDW THREE WAY TAPPING TEE WILL BE USED FOR THE HOT TAP.
2. LOCATION, ANALYSIS, DESIGN, SUPPLY AND INSTALLATION OF THE HOT TAP FITTINGS BY CLIENT CONTRACTOR.



PRELIMINARY - NOT FOR CONSTRUCTION



BLUE RIVER WWTP

SPIRE KCMO BLUE RIVER PROJECT
PROCESS FLOW DIAGRAM
METER AND REGULATING



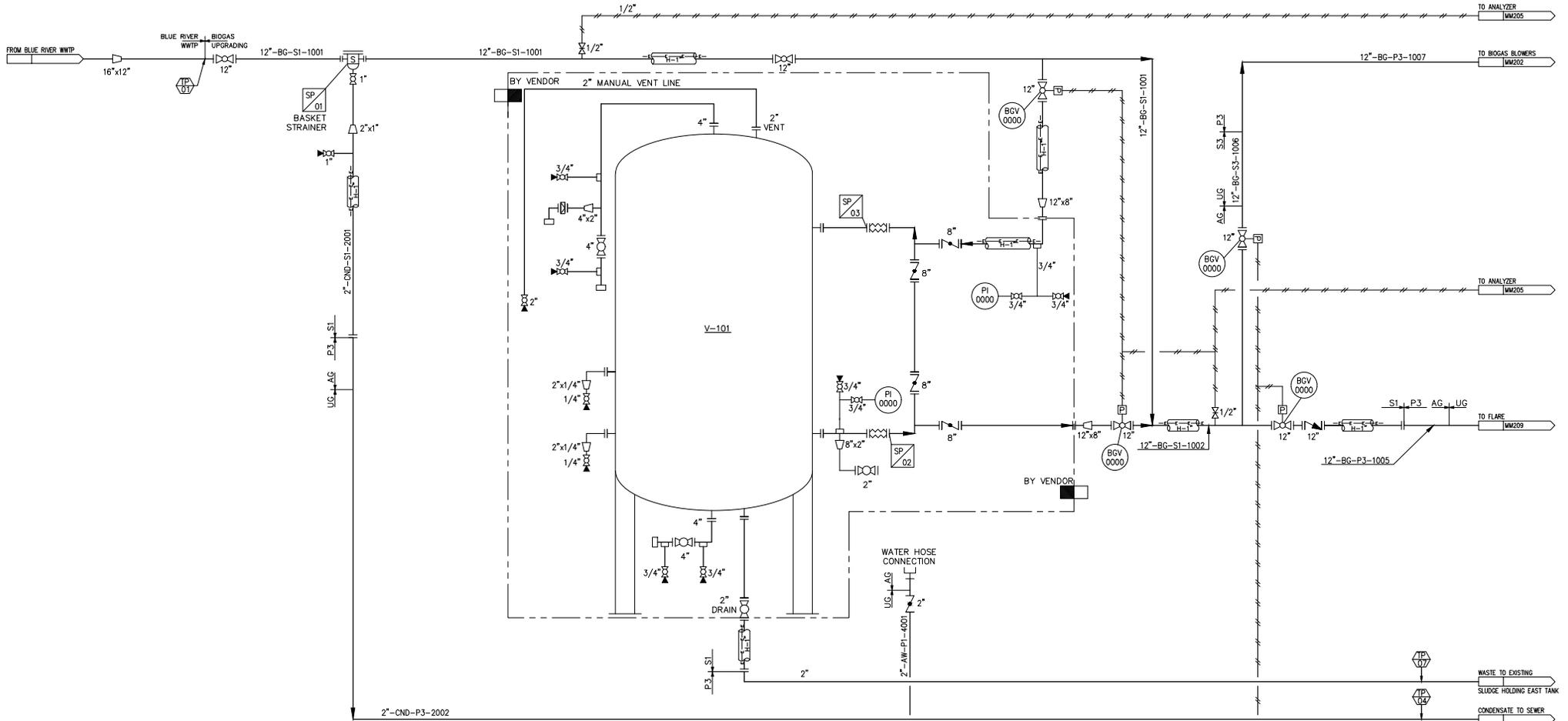
DRAWN: M. MAHESHWARAN DATE: 12/02/22
CHECKED: B. GALLAGHER DATE: 02/02/23
DESIGNED: C. SLAVIN DATE: 02/02/23
DESIGN APPROVAL: _____ DATE: _____
ENGINEER APPROVAL: _____ DATE: _____

FILE: 145569MM102.DWG SCALE: NONE PROJECT #: 145569 DRAWING NO.: MM102 REV: A

NO.	REV.	DATE	DESCRIPTION	DRN/CK	DES/ENG/APP	CO	A	145569	02/10/23	PRELIMINARY DESIGN	MCM	BC	CG	CIS	PKM
NDX001			COVER SHEET AND DRAWING INDEX												
			TITLE												
			REFERENCE DRAWINGS NUMBERS												

File: 24_2023 - 233m by: abraham - Path: Z:\Clients\KCMO\SPiRE\BNA\145569_BDGC-RIG-REF\Design\Process\Process\Sheet\145569MM102.dwg

V-101
 BULK H2S REMOVAL
 SIZE & CAPACITY: TBD T/T, TBD GAL
 DESIGN PRESS @ TEMP: 50 PSIG @ 200 F
 MOC: TBD



PRELIMINARY - NOT FOR CONSTRUCTION



BLUE RIVER WWTU

RENEWABLE NATURAL GAS PROJECT
 PIPING & INSTRUMENTATION DIAGRAM
 BIOGAS UPGRADE H2S REMOVAL



DRAWN: M. MAHESWARAN DATE: 12/02/22
 CHECKED: B. GALLAGHER DATE: 02/02/23
 DESIGNED: C. SLAVIN DATE: 02/02/23

PROJECT # 145569 DRAWINGS NO. MM201 REV. A
 FILE: 145569MM201.DWG SCALE: NONE

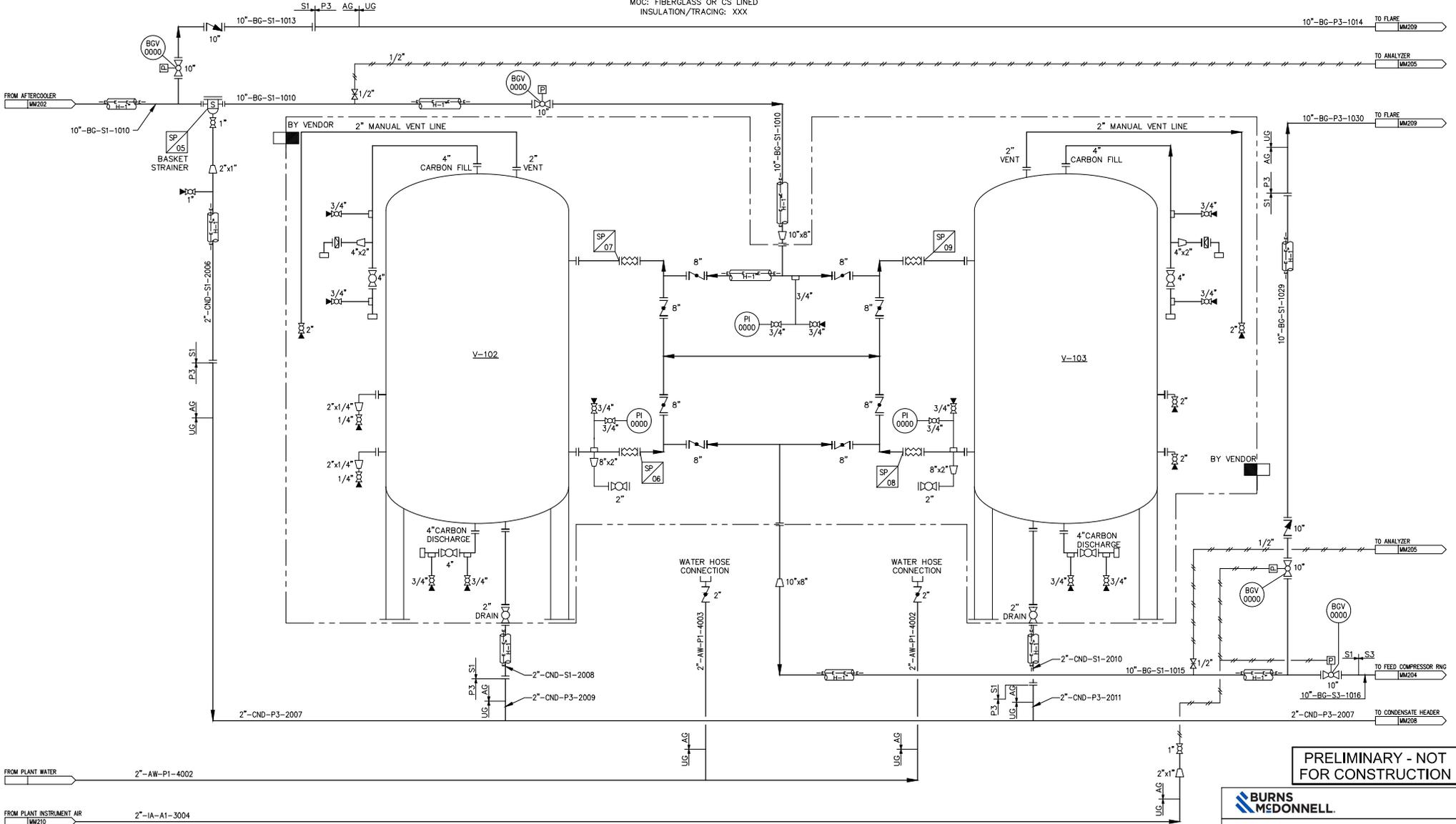
NO.	REV.	DATE	DESCRIPTION	DRN/CK	DES/ENG/APP	CO	REV.	PROJECT #	DATE	DESCRIPTION	MGM	BC	CGS	PKM
1			PRELIMINARY DESIGN											

COVER SHEET AND DRAWING INDEX

File: 24_2023 - 24-30m by: abraham - Path: Z:\Clients\DRG\SPRIBRICK\145569_BIOGAS_UPGRADE_H2S_REMOVAL\Design\Process\Sheet\145569MM201.dwg

V-102/103

H2S/VOC POLISHING VESSELS
 SIZE & CAPACITY: TBD T/T, XXXX GAL
 DESIGN PRESS @ TEMP: 50 PSIG @ 200 F
 MOC: FIBERGLASS OR CS LINED
 INSULATION/TRACING: XXX



PRELIMINARY - NOT FOR CONSTRUCTION

BURNS MEDONNELL
 BLUE RIVER WWTP

RENEWABLE NATURAL GAS PROJECT
 PIPING & INSTRUMENTATION DIAGRAM
 BIOGAS UPGRADE H2S POLISHING



DRAWN: M. MAHESHWARAN DATE: 12/02/22
 CHECKED: B. GALLAGHER DATE: 02/02/23
 DESIGNED: C. SLAVIN DATE: 02/02/23

FILE: 145568MM203.DWG SCALE: NONE
 PROJECT #: 145568 DRAWINGS NO.: MM203 REV: A

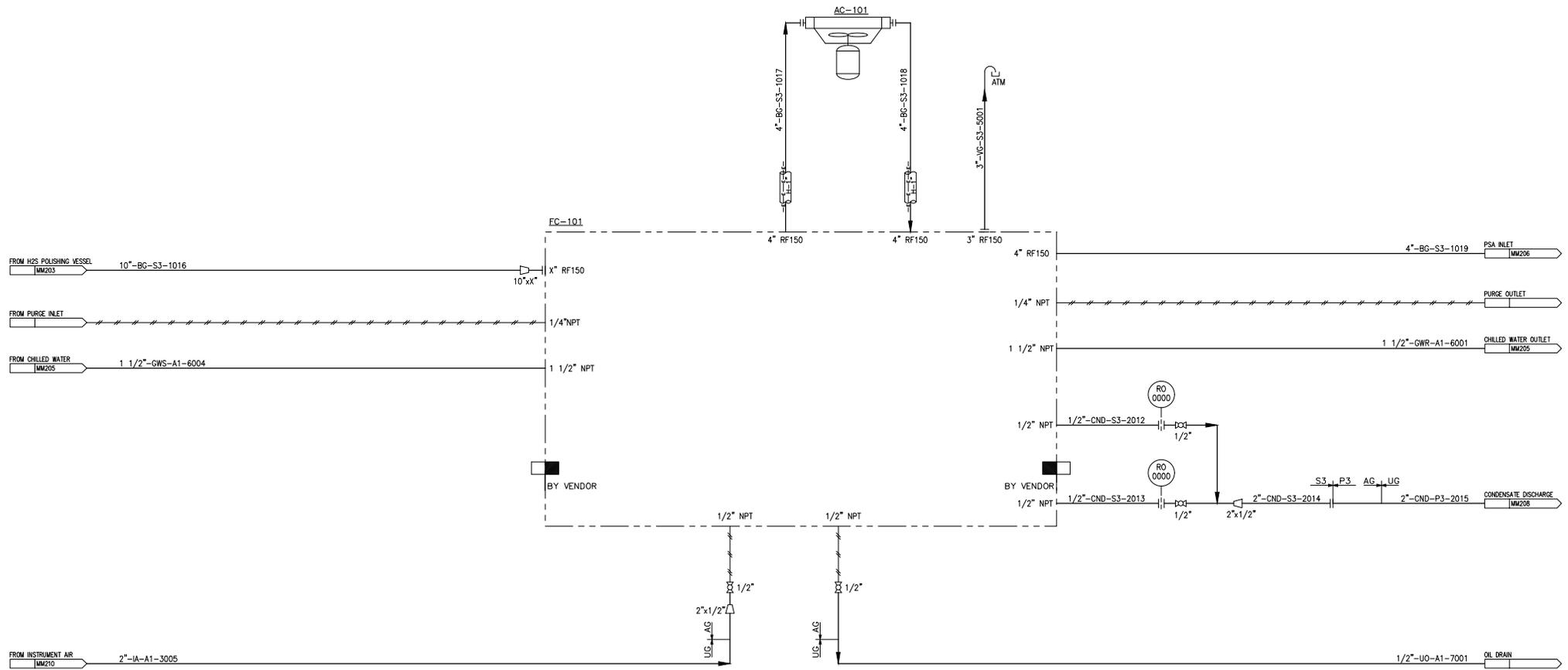
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1							

DRAWING NUMBER	TITLE	REV.	PROJECT	DATE	DESCRIPTION	DRN/CK	DES/ENG	CO	APP	DATE	DESCRIPTION	MCM	BC	CG	CIS	PKAD	ENGINEER APPROVAL	DATE	FILE	SCALE	PROJECT #	DRAWINGS NO.	REV
NDX001	COVER SHEET AND DRAWING INDEX																		145568MM203.DWG	NONE	145568	MM203	A

File: 24_2023 - 2470m by abraham - Path = Z:\Users\DRS\SPRIB\PROJECTS\145568_BIOGAS_UPGRADE_H2S_POLISHING\145568MM203.dwg

FC-101
FEED COMPRESSOR DEHYDRATION SYSTEM
 CAPACITY: 800 SCFM
 POWER: TBD HP
 MOC: 304 SS
 DISCHARGE PRESSURE: 200 PSIG

AC-101
FEED COMPRESSOR AFTERCOOLER
 DUTY: XXX MMBTU/HR
 DESIGN: XXX PSIG @ XXX°F
 CAPACITY: 800 SCFM
 POWER: TBD HP
 MOC: 304 SS



PRELIMINARY - NOT FOR CONSTRUCTION

BURNS MEDONNELL
 BLUE RIVER WWTP



**RENEWABLE NATURAL GAS PROJECT
 PIPING & INSTRUMENTATION DIAGRAM
 BIOGAS FEED COMPRESSOR SKID**

NO.	REV.	DATE	DESCRIPTION	BY	CHKD.	APP.
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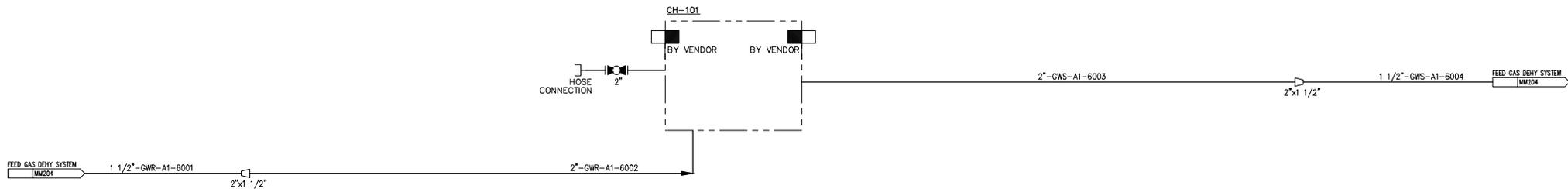
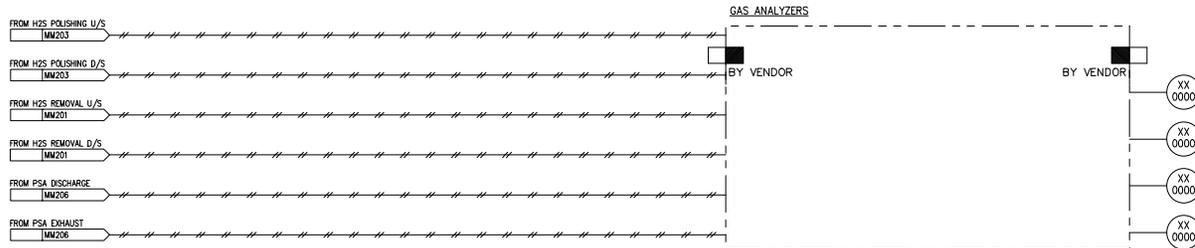
DRAWN	M. MAHESWARAN	DATE	12/02/22
CHECKED	B. GALLAGHER	DATE	02/02/23
DESIGNED	C. SLAVIN	DATE	02/02/23
DESIGN APPROVAL		DATE	
ENGINEER APPROVAL		DATE	

FILE:	145569MM204.DWG	SCALE:	NONE
PROJECT #	145569	DRAWINGS NO.	MM204
REV			A

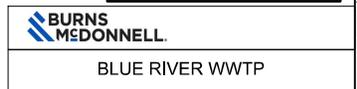
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GAS ANALYZERS
 MFG: TBD
 ANALYZERS: CH4,CO2,O2,H2S

CH-101
 CHILLER
 DUTY: XXX MMBTU/HR
 CHILLER POWER: XX HP
 MOC: 304 SS



PRELIMINARY - NOT FOR CONSTRUCTION



**RENEWABLE NATURAL GAS PROJECT
 PIPING & INSTRUMENTATION DIAGRAM
 BIOGAS UPGRADE CHILLER AND GAS ANALYZER SYSTEM**

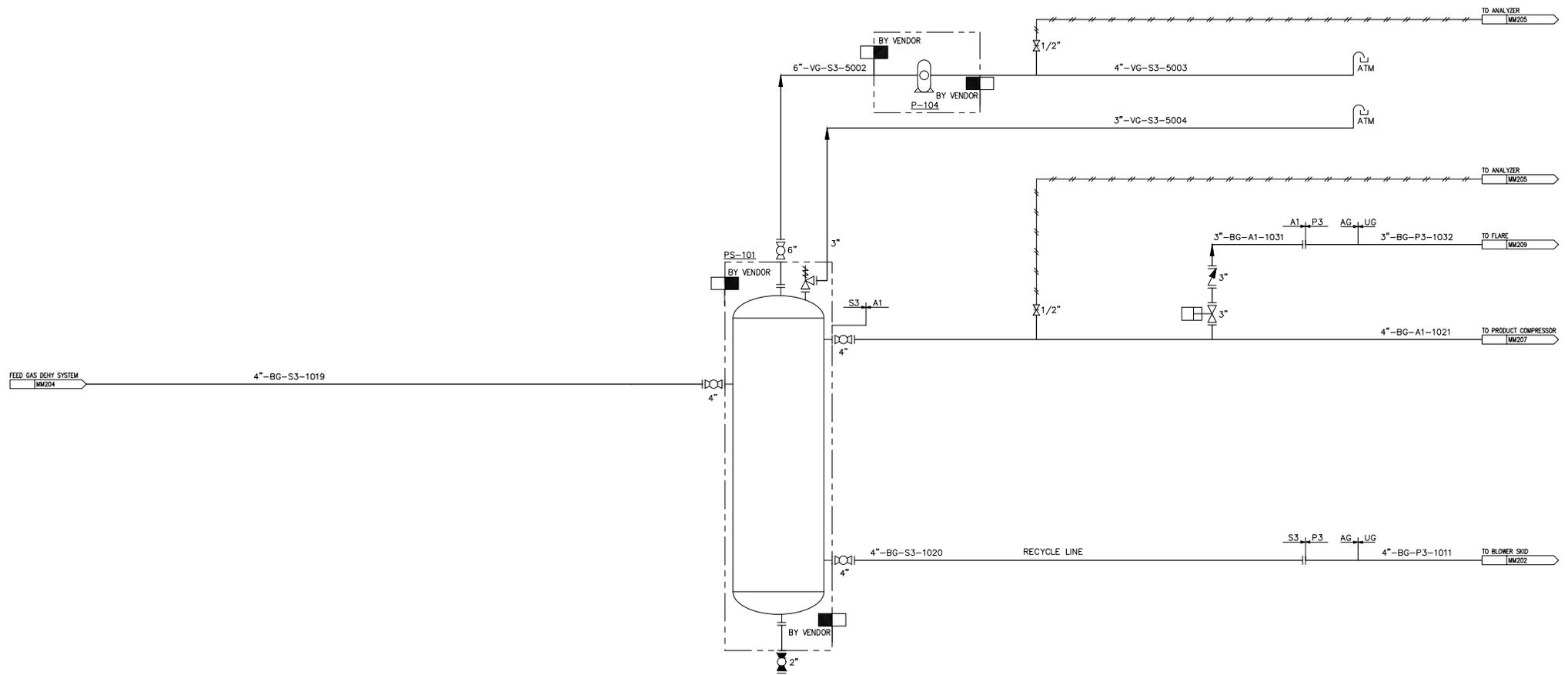
NO.	REV.	DATE	DESCRIPTION	BY	CHKD	APP'D
1	A	02/02/23	PRELIMINARY DESIGN	C. SLAVIN	B. GALLAGHER	M. MAHESHWARAN

DRAWN	M. MAHESHWARAN	DATE	12/02/22
CHECKED	B. GALLAGHER	DATE	02/02/23
DESIGNED	C. SLAVIN	DATE	02/02/23
DESIGN APPROVAL		DATE	
ENGINEER APPROVAL		DATE	
FILE:	145568MM205.DWG	SCALE:	NONE
PROJECT #	145568	DRAWING NO.	MM205
REV	A		

File Path: C:\Users\GWS\SPRIB\GAS_ANALYZER_CHILLER\145568_MM205.dwg
 Plot: 24/02/2023 14:55:08
 Plotter: HP DesignJet 5000 Series
 Scale: 1:1
 Author: M. Maheshwaran
 Date: 12/02/22
 Checked: B. Gallagher
 Designed: C. Slavin
 Design Approved: [Blank]
 Engineer Approved: [Blank]

PS-101
PSA SYSTEM
CAPACITY: 800 SCFM
POWER: TBD HP
MOC: 304 SS

P-104
VACUUM SKID
CAPACITY: TBD SCFM
RATING: 450 V
POWER: TBD HP
MOC: 304 SS



PRELIMINARY - NOT FOR CONSTRUCTION



BLUE RIVER WWTP

RENEWABLE NATURAL GAS PROJECT
PIPING & INSTRUMENTATION DIAGRAM
BIOGAS UPGRADE PSA SYSTEM



DRAWN: M. MAHESWARAN DATE: 12/02/22
CHECKED: B. GALLAGHER DATE: 02/02/23
DESIGNED: C. SLAVIN DATE: 02/02/23
DESIGN APPROVAL: _____ DATE: _____
ENGINEER APPROVAL: _____ DATE: _____

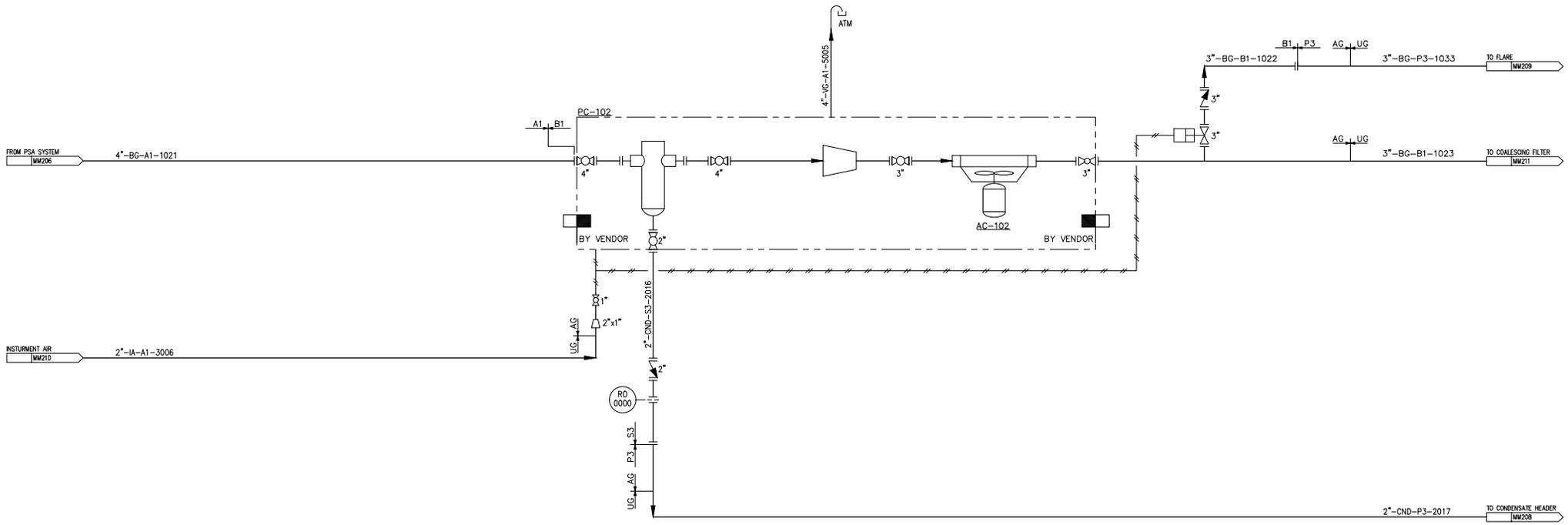
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NO.	REV.	DATE	DESCRIPTION	DRN/CHK	DES/ENG/APP	CO	REV.	PROJECT #	DATE	DESCRIPTION	MCM	BC	BC	CIS	PKAD
							A	145568	02/10/23	PRELIMINARY DESIGN					
NDX001			COVER SHEET AND DRAWING INDEX												

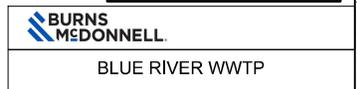
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PC-102
 PRODUCT COMPRESSOR
 CAPACITY: 540 SCFM @ TBD PSIG
 POWER: TBD HP
 MOC: CS

AC-102
 PRODUCT COMPRESSOR AFTERCOOLER
 DUTY: XXX MMBTU/HR
 DESIGN: XXX PSIG @ XXX F
 CAPACITY: 800 SCFM
 POWER: XX HP
 MOC: CS



PRELIMINARY - NOT FOR CONSTRUCTION



**RENEWABLE NATURAL GAS PROJECT
 PIPING & INSTRUMENTATION DIAGRAM
 BIOGAS UPGRADE PRODUCT COMPRESSOR**



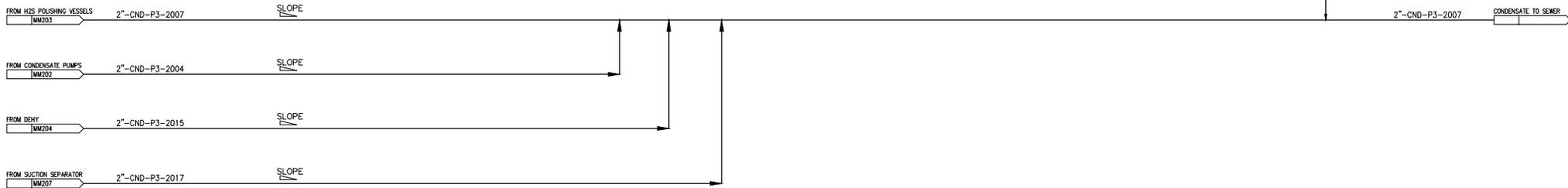
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 CHECKED: B. GALLAGHER DATE: 02/02/23
 DESIGNED: C. SLAVIN DATE: 02/02/23
 DESIGN APPROVAL: _____ DATE: _____
 ENGINEER APPROVAL: _____ DATE: _____

FILE: 145568MM207.DWG SCALE: NONE PROJECT #: 145568 DRAWINGS NO.: MM207 REV: A

NO.	REV.	DATE	DESCRIPTION	DRN/CHK	DES/ENG/APP	CO	REV.	PROJECT #	DATE	DESCRIPTION	DRN/CHK	DES/ENG/APP	CO
1	A	02/02/23	PRELIMINARY DESIGN										

NO.	REV.	DATE	DESCRIPTION
1	A		COVER SHEET AND DRAWING INDEX

File: 24_2023_0203 - 2:03pm by: pmonarch - Path: Z:\Clients\DRG\SPRINGMCK\145568_BIOGAS_UPGRADE_PIPING_INSTRUMENTATION\Drawings\Process\Sheet\145568MM207.dwg



PRELIMINARY - NOT FOR CONSTRUCTION



BLUE RIVER WWTP



RENEWABLE NATURAL GAS PROJECT
PIPING & INSTRUMENTATION DIAGRAM
BIOGAS UPGRADE CONDENSATE SYSTEM

DRAWN M. MAHESWARAN DATE 12/02/22
 CHECKED B. GALLAGHER DATE 02/02/23
 DESIGNED C. SLAVIN DATE 02/02/23
 DESIGN APPROVAL _____ DATE _____
 ENGINEER APPROVAL _____ DATE _____

FILE: 145568MM208.DWG SCALE: NONE PROJECT #: 145568 DRAWINGS NO: MM208 REV: A

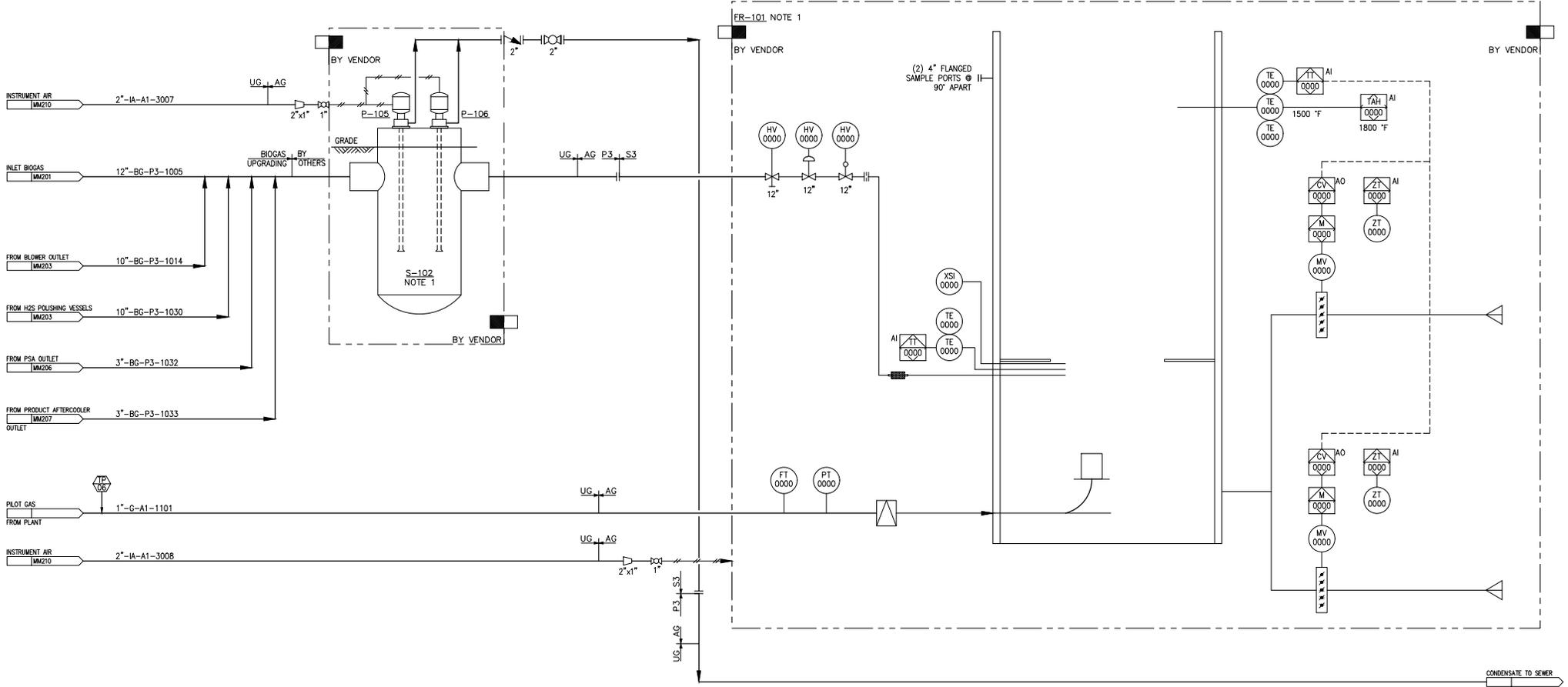
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NDX001	COVER SHEET AND DRAWING INDEX								A	145568	02/10/23	PRELIMINARY DESIGN						
	REFERENCE DRAWINGS NUMBERS																	

File: 24_2023 - 2:25:30m by: mabonach - Path: Z:\Clients\DRG\SPRIBRNC\145568_BIOGAS_UPGRADE\Design\Process\Sheet\145568MM208.dwg

S-102
 BIOGAS CONDENSATE SUMP
 BY OTHERS
 MFG: TBD
 MODEL: TBD
 MOC: HDPE

P-105/106
 SUMP PUMPS
 BY OTHERS
 CAPACITY: XX GPM @ XX FT TDH
 MATL: CS

FR-101
 FLARE
 BY OTHERS
 CAPACITY: 1,308 SCFM @ 100 INH2O
 MOC: 316 SS



NOTES:

1. SUMP AND FLARE ARE NOT IN BIOGAS USE APPLICATIONS PROJECT SCOPE. FLARE TIE-POINT TO BE COORDINATED WITH CONTRACTOR RESPONSIBLE FOR FLARE.

PRELIMINARY - NOT FOR CONSTRUCTION



BLUE RIVER WWTP

RENEWABLE NATURAL GAS PROJECT
 PIPING & INSTRUMENTATION DIAGRAM
 BIOGAS UPGRADE FLARE



DRAWN: M. MAHESWARAN DATE: 12/02/22
 CHECKED: B. GALLAGHER DATE: 02/02/23
 DESIGNED: C. SLAVIN DATE: 02/02/23

PROJECT # 145569 DRAWINGS NO. MM209 REV. A

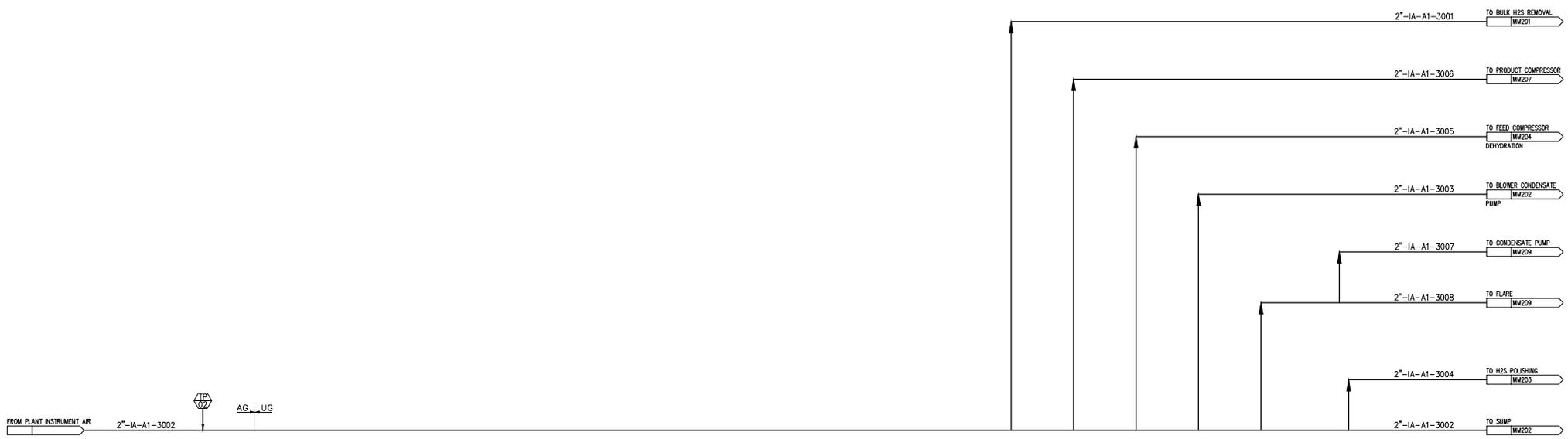
FILE: 145569MM209.DWG SCALE: NONE

SCALE: NONE

NO.	REV.	DATE	DESCRIPTION	BY	CHKD.	APP.	CO.	REV.	PROJECT #	DATE	DESCRIPTION	DRN	CHK	DES.	ENG.	APP.	CO.
								A	145569	02/02/23	PRELIMINARY DESIGN						

NDX001	COVER SHEET AND DRAWING INDEX
DRAWING NUMBER	TITLE
REFERENCE DRAWINGS NUMBERS	

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PRELIMINARY - NOT FOR CONSTRUCTION



BLUE RIVER WWTP

RENEWABLE NATURAL GAS PROJECT
PIPING & INSTRUMENTATION DIAGRAM
INSTRUMENT AIR



DRAWN M. MAHESWARAN DATE 12/02/22
 CHECKED B. GALLAGHER DATE 02/02/23
 DESIGNED C. SLAVIN DATE 02/02/23
 DESIGN APPROVAL _____ DATE _____
 ENGINEER APPROVAL _____ DATE _____

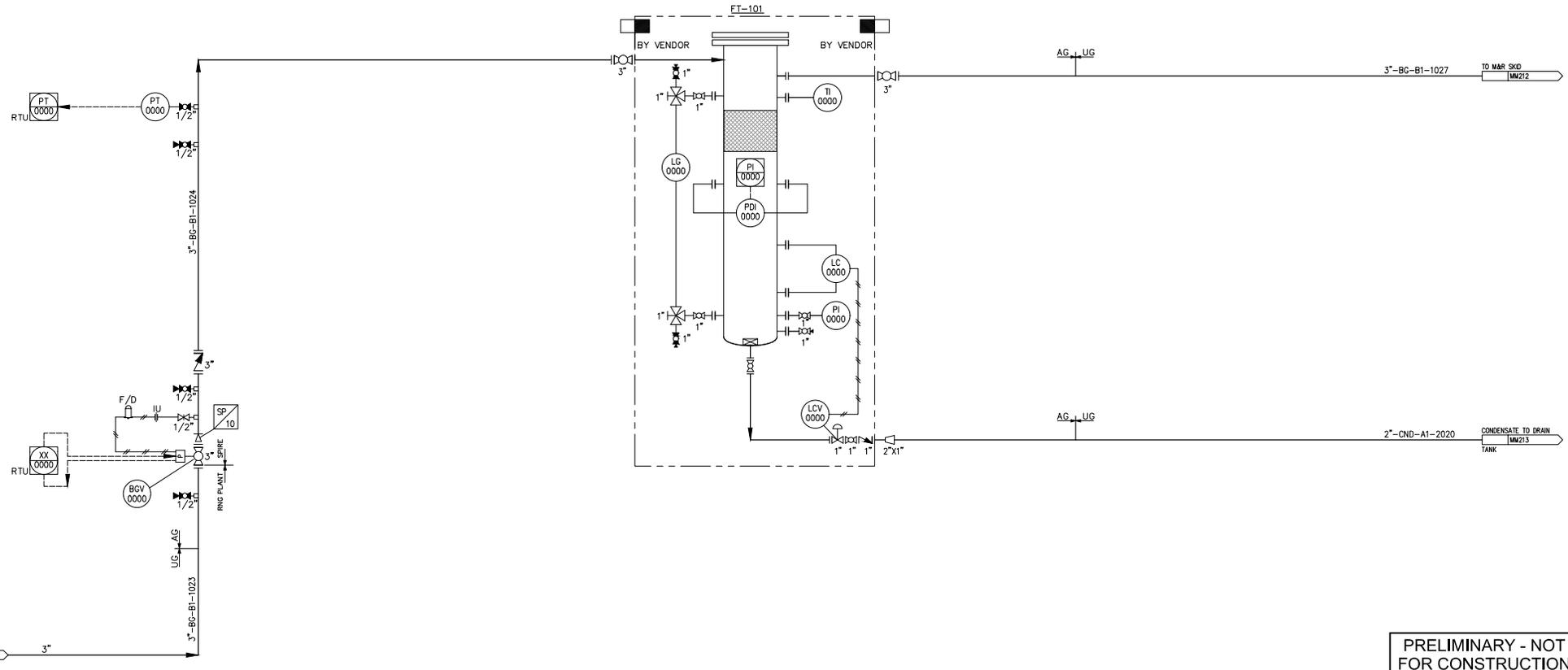
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PROJECT # 145569 DRAWINGS NO. MM210 REV A

DRAWING NUMBER	TITLE	REV.	PROJECT #	DATE	DESCRIPTION	DRN/CK	DES/ENG/APP	CO	REV.	PROJECT #	DATE	DESCRIPTION	MCM	BC	CG	CIS	PKM
NDX001	COVER SHEET AND DRAWING INDEX								A	145569	02/10/23	PRELIMINARY DESIGN					

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ET-101
 COALESCING FILTER
 MFG: XXX
 CAPACITY: 540 SCFM
 MOC: A105 CS



PRELIMINARY - NOT FOR CONSTRUCTION



BLUE RIVER WWTP

RENEWABLE NATURAL GAS PROJECT
 PIPING & INSTRUMENTATION DIAGRAM
 RNG COALESCING FILTER



DRAWN: M. MAHESWARAN DATE: 12/02/22
 CHECKED: B. GALLAGHER DATE: 02/02/23
 DESIGNED: C. SLAVIN DATE: 02/02/23
 DESIGN APPROVAL: _____ DATE: _____
 ENGINEER APPROVAL: _____ DATE: _____

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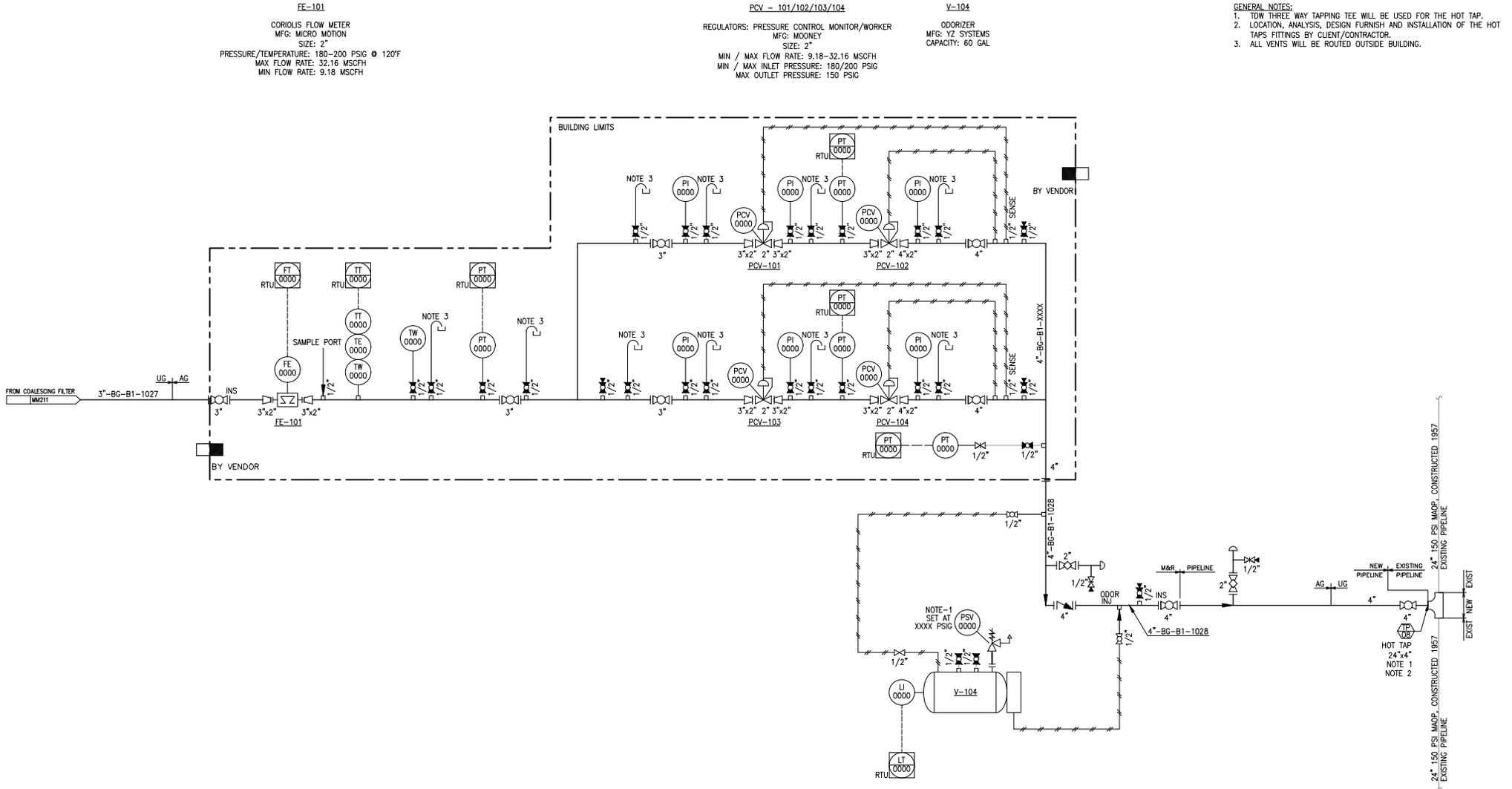
©2023 SCALE DRAWING USE ONLY

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NO.	REV.	DATE	DESCRIPTION	DRN/CK	DES/ENG/APP	CO	REV.	PROJECT #	DATE	DESCRIPTION	MCM	BC	CG	CIS	PKM	CO
1	A	02/02/23	PRELIMINARY DESIGN													

NDX001 COVER SHEET AND DRAWING INDEX

DRAWING NUMBER: MM207 TITLE: _____
 REFERENCE DRAWING NUMBERS: _____



- GENERAL NOTES:
1. TOW THREE-WAY TAPPING TEE WILL BE USED FOR THE HOT TAP.
 2. LOCATION, ANALYSIS, DESIGN FURNISH AND INSTALLATION OF THE HOT TAPS FITTINGS BY CLIENT/CONTRACTOR.
 3. ALL VENTS WILL BE ROUTED OUTSIDE BUILDING.

PRELIMINARY - NOT FOR CONSTRUCTION



BLUE RIVER WWTP

RENEWABLE NATURAL GAS PROJECT
PIPING & INSTRUMENTATION DIAGRAM
METER SKID



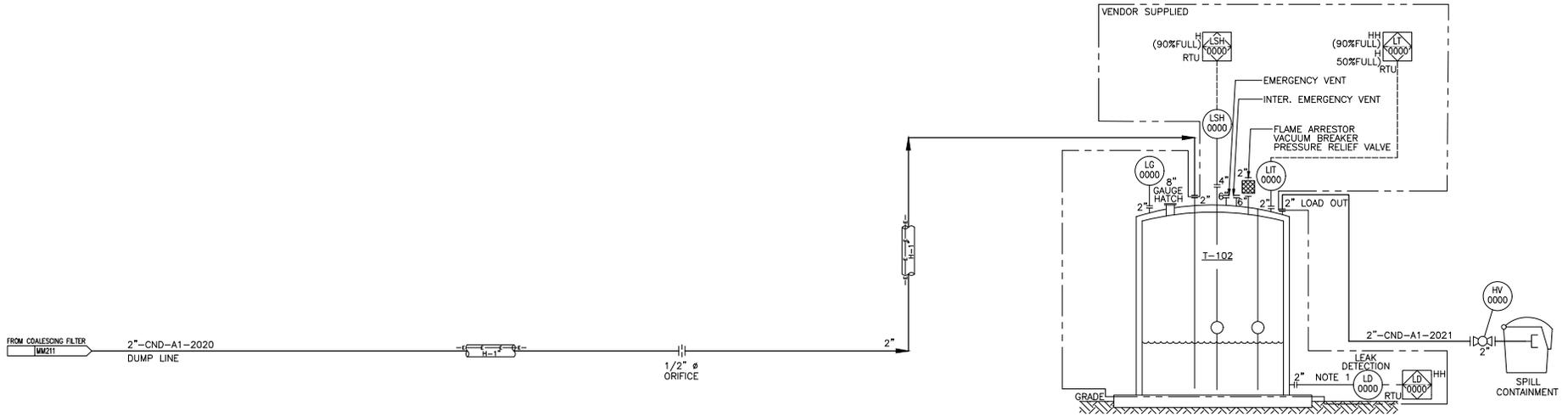
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NO.	REV.	DATE	DESCRIPTION	BY	CHKD.	APP.
1		12/02/22	PRELIMINARY DESIGN	M.M.	B.G.	C.S.
2		02/02/23		B.G.	C.S.	
3		02/02/23		C.S.		

NDX001	COVER SHEET AND DRAWING INDEX
--------	-------------------------------

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 PROJECT: 145569
 DRAWING: MM212
 REV: A
 DATE: 02/02/23
 TIME: 10:25 AM
 USER: BURNSMCDONNELL\B.GALLAGHER

T-102
 CONDENSATE DRAIN TANK
 MFR: TBD
 DIMENSIONS: TBD
 DESIGN PRESSURE/TEMPERATURE: ATM / -20°F TO 120°F
 CAPACITY: 250 GAL



PRELIMINARY - NOT FOR CONSTRUCTION



BLUE RIVER WWTP

RENEWABLE NATURAL GAS PROJECT
 PIPING & INSTRUMENTATION DIAGRAM
 CONDENSATE DRAIN TANK



DRAWN: M. MAHESWARAN DATE: 01/23/23
 CHECKED: B. GALLAGHER DATE: 02/02/23
 DESIGNED: C. SLAVIN DATE: 02/02/23
 DESIGN APPROVAL: _____ DATE: _____
 ENGINEER APPROVAL: _____ DATE: _____

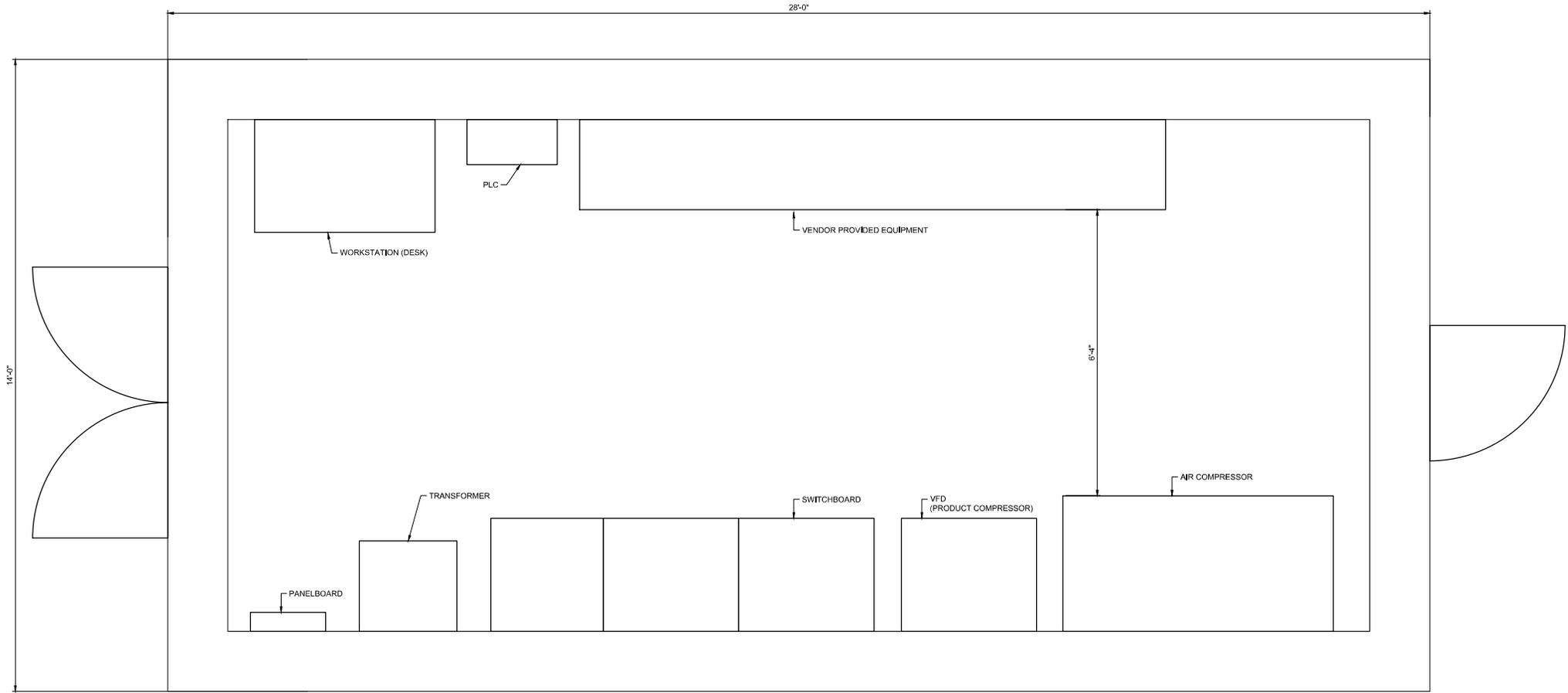
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A	145569	09/10/23		PRELIMINARY DESIGN												

NDX001	COVER SHEET AND DRAWING INDEX
DRAWING NUMBER	TITLE
REFERENCE DRAWINGS NUMBERS	

File: 24_2023 - 2:59pm by: abraham - Path: C:\Users\DNQ\OneDrive\OneDrive\Projects\145569_MM213.dwg



ELECTRICAL BUILDING LAYOUT
 0 1/2 2
 SCALE IN FEET

PRELIMINARY - NOT FOR CONSTRUCTION



BLUE RIVER WWTP

RENEWABLE NATURAL GAS PROJECT
 ELECTRICAL BUILDING PLAN



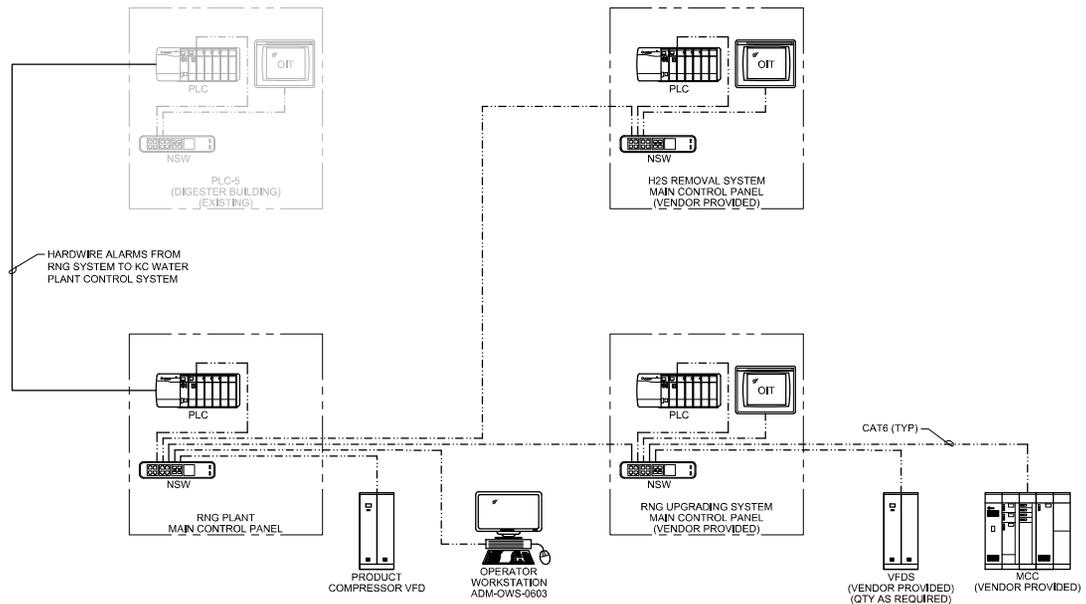
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 CHECKED _____ DATE _____
 DESIGNED C. BEHREND DATE 3/10/23
 DESIGN APPROVAL _____ DATE _____
 ENGINEER APPROVAL _____ DATE _____

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PROJECT # 145569 DRAWINGS NO. **E003** REV **A**

DRAWING NUMBER	TITLE	REV.	PROJECT #	DATE	DESCRIPTION	DRN/CK	DES/ENG/APP	CO	REV.	PROJECT #	DATE	DESCRIPTION	CAB	CAB	BULD	
										A	145568	3/10/23	PRELIMINARY DESIGN			

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PRELIMINARY - NOT FOR CONSTRUCTION



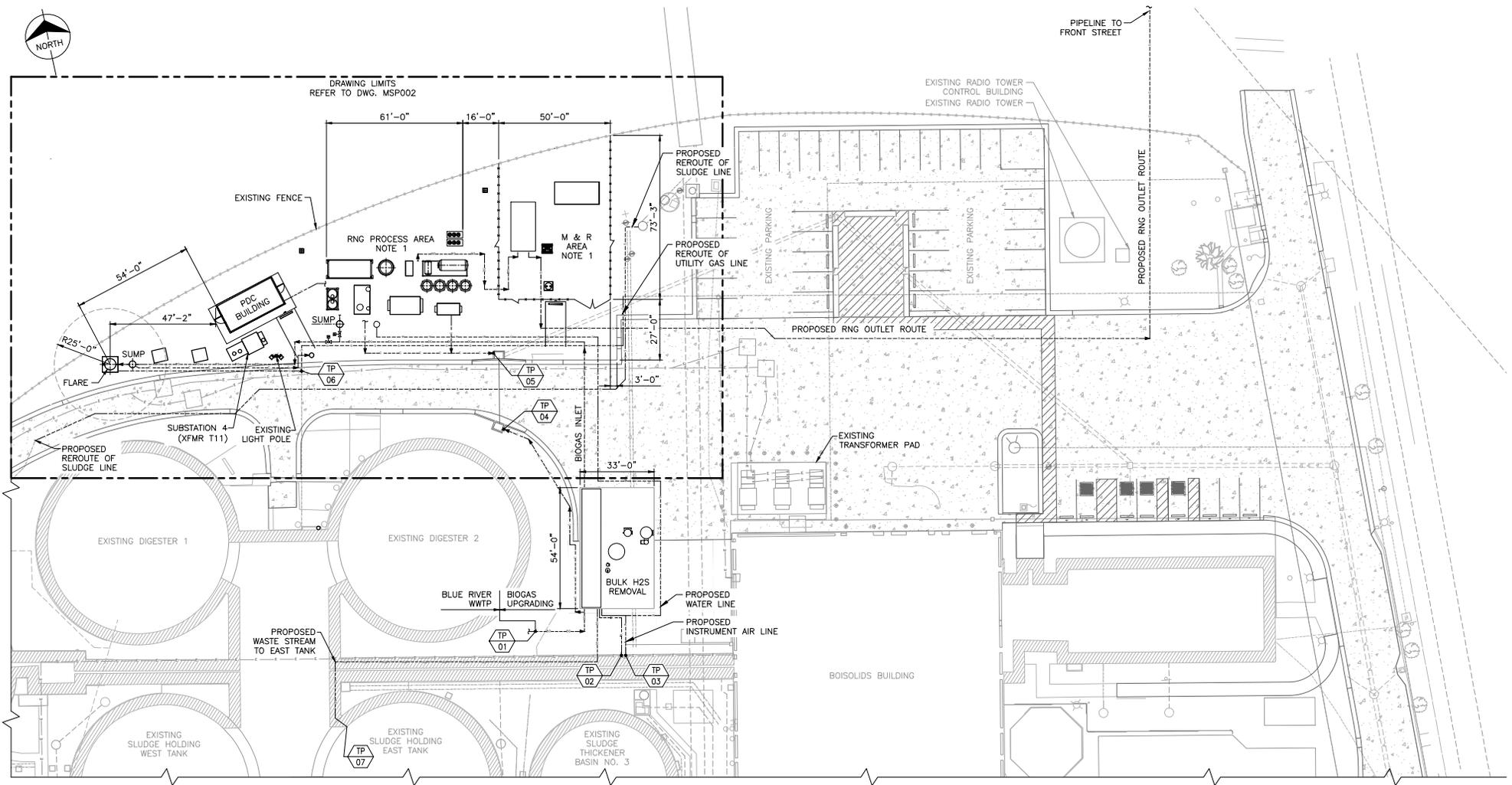
BLUE RIVER WWTP

RENEWABLE NATURAL GAS PROJECT NETWORK ARCHITECTURE DIAGRAM



DRAWING NUMBER	TITLE	REV.	PROJECT #	DATE	DESCRIPTION	DRN/CHK	DES/ENG/APP	CO	A	145568	3/10/23	PRELIMINARY DESIGN	CAB	CAB	CO	FILE: 145568_E004.DWG	SCALE: NONE	PROJECT #	DRAWINGS NO.	REV
	REFERENCE DRAWINGS NUMBERS																	145568	E004	A

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- NOTES:**
 1. REFER TO PLOT PLAN, DWG. MSP002, FOR DETAILED EQUIPMENT INFORMATION.



PRELIMINARY - NOT FOR CONSTRUCTION



BLUE RIVER WWTG

RENEWABLE NATURAL GAS PROJECT
 OVERALL PLOT PLAN



DRAWN: M. MAHESWARAN DATE: 01/06/23
 CHECKED: B. GALLAGHER DATE: 02/02/23
 DESIGNED: C. SLAVIN DATE: 02/02/23

PROJECT # 145569 DRAWING NO. MSP001 REV. A
 FILE: 145569MSP001.DWG SCALE: 1"=20'-0"

DRAWING NUMBER	TITLE	REV.	PROJECT	DATE	DESCRIPTION	DRN/CK	DES/ENG/APP	CO	REV.	PROJECT #	DATE	DESCRIPTION	DRN/CK	DES/ENG/APP	CO
E001	ELECTRICAL SITE PLAN														
C001	OVERALL CIVIL PLOT PLAN														
MSP002	PLOT PLAN														
G002	LIST OF DRAWINGS														
G001	COVER SHEET														

File: 27_2023 - 82.dwg by: abraham - Path: C:\Users\DN3\SPRINKLE\145569_BIOGAS_BIOGAS-RRG-RRG-RRG-RRG\0400\Drawings\Plant\145569MSP001.dwg

